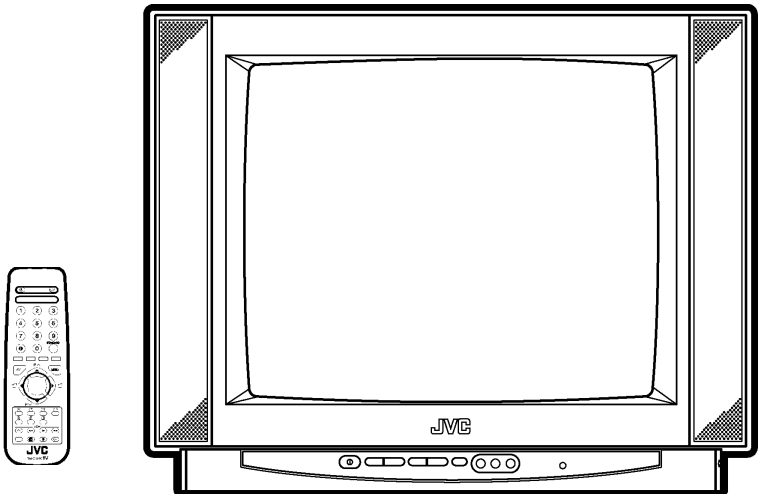
AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP



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No. 52054
Jul. 2002

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

SPECIFICATIONS

Item		Content		
		AV-21BT8ENS AV-21BT8ENB	AV-21BT8EPS AV-21BT8EPB AV-21BT80EP	AV-21BT8EES AV-21BT8EEB
Dimensions (W × H × D)		596mm × 446mm × 490mm		
Mass		21.4kg		
TV RF System		B/G	B/G , L/L'	B/G , D/K
Colour System	TV Mode	PAL	PAL / SECAM	PAL / SECAM
	Video Mode	PAL / SECAM / NTSC 3.58 / NTSC 4.43 (EP/EE MODEL)		
		PAL / NTSC 3.58 / NTSC 4.43 (EN MODEL)		
Sound System		German + NICAM		
Teletext System		Fastext / Toptext		
Receiving Frequency				
	VHF(VL)	46.25MHz ～ 168.25MHz		
	(VH)	175.25MHz ～ 463.25MHz		
	UHF	471.25MHz ～ 863.25MHz		
	CATV	S1-S20 , S21-S41 & S75-S79	S1-S20, S21-S41 & S75-S77	S1-S20 & S21-S41
Intermediate Frequency				
	VIF Carrier	38.9MHz (B/G , D/K , L) / 33.9MHz(L')		
	SIF Carrier	33.4MHz (5.5MHz:B/G) / 32.9MHz (6.0MHz:D/K) / 32.4MHz (6.5MHz:L) / 40.4MHz (6.5MHz:L')		
Colour Sub Carrier Freq.				
	PAL	4.43MHz		
	SECAM	4.43MHz		
	NTSC	3.58MHz / 4.43MHz		
Power Input		AC 220V～240V , 50Hz		
Power Consumption		85W(Max.), 2.5W(Standby)		
Aerial Input Term		75Ω unbalanced, Coaxial		
Picture Tube Size		Visible size : 51cm, Measured diagonally		
High Voltage		27.7kV		
Speaker		5.7cm × 16cm Oval type × 2		
Audio Output		6.5W × 2		
Input	Video	1Vp-p, 75Ω		
	S/Video	Y : 1Vp-p Positive		
		C : 0.286Vp-p		
	Audio(L/R)	500mVrms, High Impedance		
Output	Video	1Vp-p 75Ω		
	Audio(L/R)	500mVrms, Low Impedance		
Input Terminal	Rear Side	AV1 (Video/Audio/RGB)		
		AV2 (Video/Audio/S-VHS)		
	Front Side	AV3 (Video/Audio)		
Output Terminal	Front Side	Headphone jack (Stereo mini jack 3.5 ϕ)		
	Rear Side	AV1 (Video/Audio)		
		AV2 (Video/Audio) (Selected TV,AV1 or AV3)		
Remote Control Unit		VE-30017763 (RM-C1100), (AA/R06 dry battery × 2)		

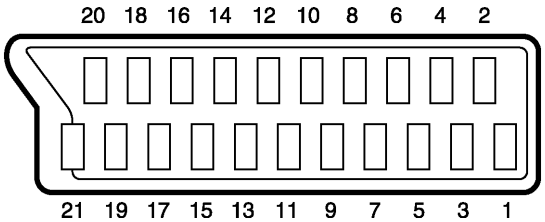
Design & specifications are subject to change without notice.

■21-pin Euro connector (SCART socket) : AV-1 / AV-2

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	AV-1	AV-2
1	AUDIO R output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○
2	AUDIO R input	500mVrms(Nominal), High impedance	○	○
3	AUDIO L output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○
4	AUDIO GND		○	○
5	GND (B)		○	○
6	AUDIO L input	500mVrms(Nominal), High impedance	○	○
7	B input	700mV_{B-W}, 75Ω	○	NC
8	FUNCTON SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	○	○
9	GND (G)		○	○
10	SCL3		NC	NC
11	G input	700mV_{B-W}, 75Ω	○	NC
12	SDA3		NC	NC
13	GND (R)		○	○
14	GND (Y_S)		○	○
15	R / C input	R : 700mV_{B-W}, 75Ω C : 300mV_{P-P}, 75Ω	○ (only R)	○
16	Ys input	Low : 0 - 0.4, High : 1 - 3V, 75Ω	○	NC
17	GND(VIDEO output)		○	○
18	GND(VIDEO input)		○	○
19	VIDEO output	1V_{P-P}(Negative going sync), 75Ω	○ (TV)	○
20	VIDEO / Y input	1V_{P-P}(Negative going sync), 75Ω	○	○
21	COMMON GND		○	○

[Pin assignment]



AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

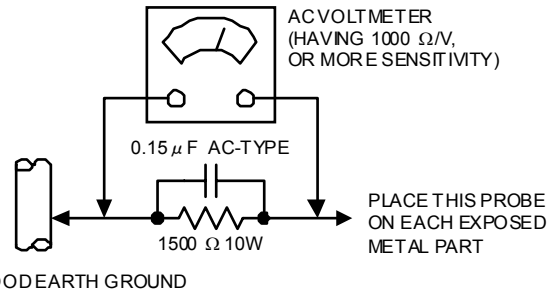
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● **Alternate Check Method**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



FEATURES

1. It is a remote controlled color television.
2. 100 programs from VHF, UHF bands or cable channels can be preset.
3. It can tune cable channels.
4. Controlling the TV is very easy by its menu driven system.
5. It has two Euroconnector sockets for external device (such as video recorder, video games, audio set, etc.)
6. Front AV Input available.
7. Stereo sound systems (German + Nicam) are available.
8. Full function Teletext (Fastext, Toptext).
9. It is possible to connect headphone.
10. Direct channel access.
11. APS (Automatic Programming System).
12. All programs can be named.
13. Forward or backward automatic tuning.
14. Sleep timer.
15. Child Lock
16. Automatic sound mute when no transmission.
17. 5 minutes after the broadcasting (closedown), the TV switches itself automatically to stand-by mode.

MAIN DIFFERENCE LIST

⚠	Model Name / Part Name	AV-21BT8ENS AV-21BT8ENB	AV-21BT8EPS AV-21BT8EPB AV-21BT80EP	AV-21BT8EES AV-21BT8EEB
	MAIN PWB	VE-20101111	VE-20101105	VE-20101103
⚠	INSTRUCTION BOOK	VE-50028252	VE-50028287	VE-50028323
⚠	FRONT CABINET	VE-20073594(ENS) VE-20068238(ENB)	VE-20073594(EPS) VE-20068238(EPB) VE-20073594(EP)	VE-20073594(EES) VE-20068238(EEB)
⚠	REAR COVER	VE-20079486(ENS) VE-20101109(ENB)	VE-20079486(EPS) VE-20101109(EPB) VE-20079486(EP)	VE-20079486(EES) VE-20101109(EEB)
⚠	LENS	VE-20056445	VE-20056445(EPS/EPB) VE-20096121(EP)	VE-20056445
⚠	RATING LABEL	VE-20101398(ENS) VE-20101401(ENB)	VE-20101557(EPS) VE-20101554(EPB) VE-20101551(EP)	VE-20101656(EES) VE-20101601(EES, POLAND) VE-20101658(EEB) VE-20101654(EEB, POLAND)
	CARTON BOX	VE-50028257(ENS) VE-50028260(ENB)	VE-50028295(EPS) VE-50028292(EPB) VE-50028289(EP)	VE-50028329(EES) VE-50028330(EEB)

CABINET COLOUR

Model Name	FRONT CABINET & REAR COVER	LENS
AV-21BT8ENS AV-21BT8EPS AV-21BT8EES	SILVER	BLACK
AV-21BT8ENB AV-21BT8EPB AV-21BT8EEB	BLACK	BLACK
AV-21BT80EP	SILVER	SILVER

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power cord.
2. Remove the 5 screws marked **A** as shown in the Fig. 1.
3. Withdraw the rear cover toward you.

REMOVING THE MAIN PWB

- Removing the rear cover.

1. Slightly raise the both sides of the chassis by hand and withdraw the MAIN PWB backward.
   (If necessary, take off the wire clamp, connectors etc.)

REMOVING THE SPEAKER

- Removing the rear cover.

1. Remove the 4 screws marked **B**, and remove speaker as shown in Fig. 1.
2. Remove the speaker.

REMOVING THE FRONT AV PWB

- Removing the rear cover.
- Removing the MAIN PWB.

1. Remove the 2 screws marked **C**.
2. Remove the FRONT AV PWB.

REMOVING THE HEADPHONE PWB

- Removing the rear cover.
- Removing the MAIN PWB.

1. Remove the 1 screw marked **D**.
2. Remove the HEADPHONE PWB.

CHECKING THE PW BOARD

To check the back side of the PW Board.

1) Pull out the PW Board. (Refer to REMOVING THE MAIN PWB).
2) Erect the PW Board vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the PW Board, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

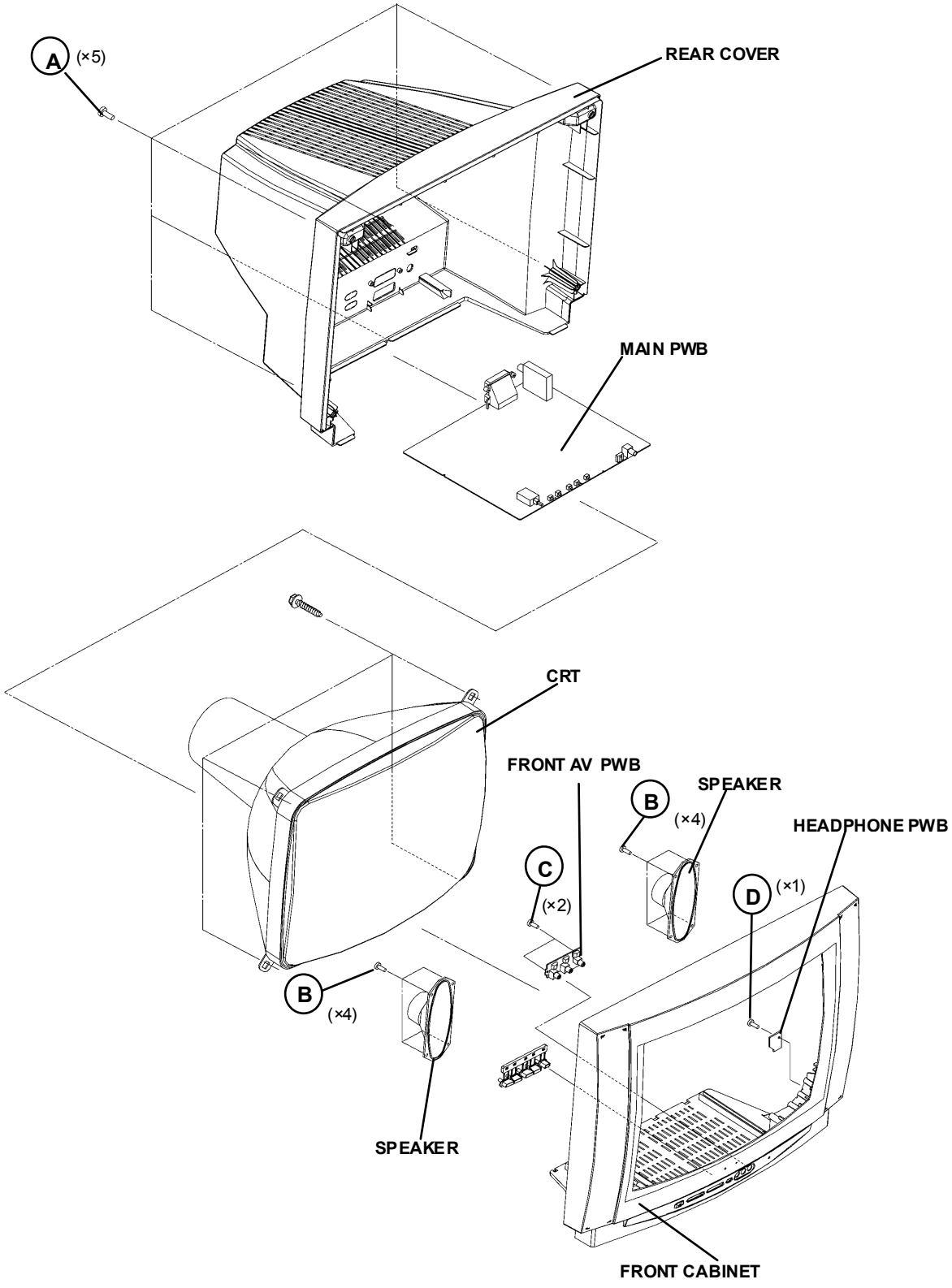

A (×5)
REAR COVER
MAIN PWB
CRT
FRONT AV PWB
B
(×4)
SPEAKER
HEADPHONE PWB
C
(×2)
D
(×1)
B
(×4)
SPEAKER
FRONT CABINET

Fig. 1

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

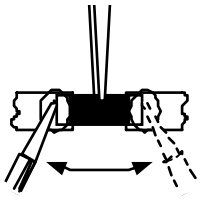
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

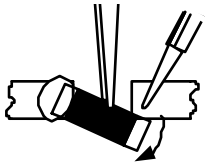
1. How to remove Chip parts

◆ **Resistors, capacitors, etc**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

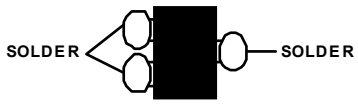


(2) Shift with tweezers and remove the chip part.

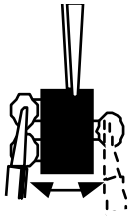


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

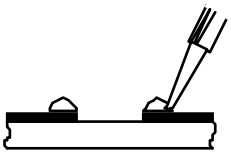


Note : After removing the part, remove remaining solder from the pattern.

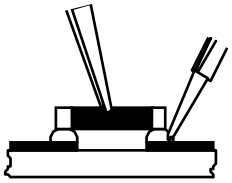
2. How to install Chip parts

◆ **Resistors, capacitors, etc**

(1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

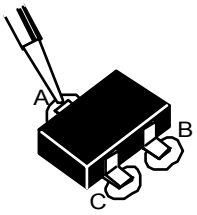


◆ **Transistors, diodes, variable resistors, etc**

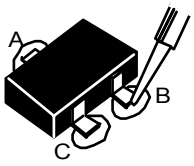
(1) Apply solder to the pattern as indicated in the figure.

(2) Grasp the chip part with tweezers and place it on the solder.

(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



MEMORY IC REPLACEMENT

1. Memory IC

This model use a memory IC.
This memory IC stores data for proper operation of the video and deflection circuits.
When replacing, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

(1) Power off

Switch off the power and disconnect the power cord from the wall outlet.

(2) Replace the memory IC

Initial value must be entered into the new IC.

(3) Power on

Connect the power cord to the wall outlet and switch on the power.

(4) SERVICE MENU setting

1) Press **MENU** key and, while the displayed MENU screen, press **4, 7, 2, 5** key on the remote control unit or press MUTING key and INFORMATION key at the simultaneously.
2) The SERVICE MENU screen of Fig.1 is displayed.
3) Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.
4) Press the STANDARD key to exit SERVICE MENU.

(5) Receive channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

(6) User settings

Check the user setting items according to after page.
Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

SERVICE MENU

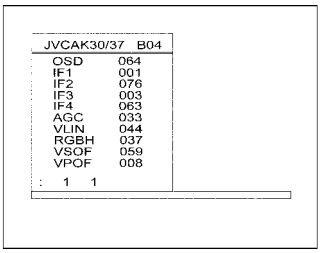


Fig.1

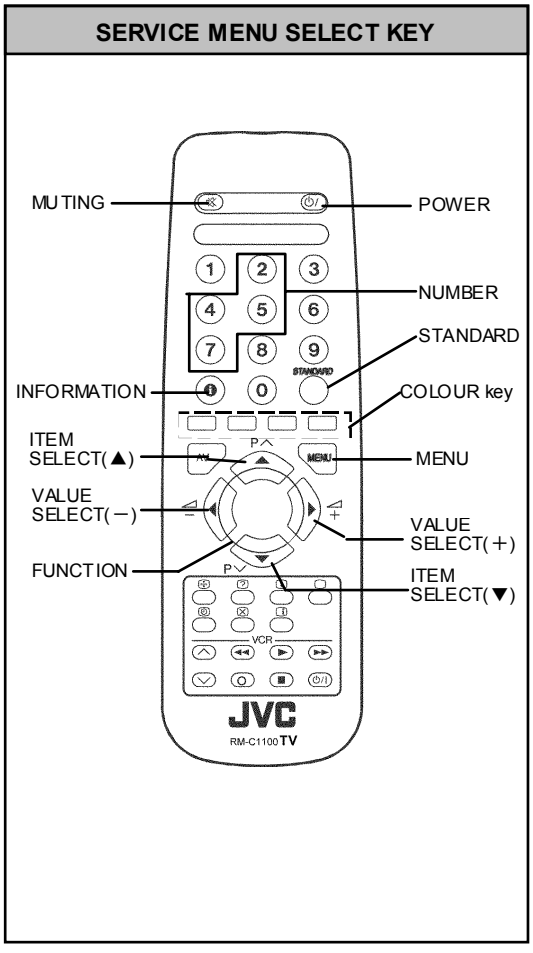


Fig.2

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

SETTING OF THE LAST MEMORY FOR SHIPMENT

■ USER SETTING VALUES

Setting Item	Setting Value	Setting Item	Setting Value
SOUND MENU		FEATURE MENU	
BALANCE	CENTER	SLEEP TIMER	OFF
BASS	↑	CHILD LOCK	OFF
TREBLE	↑	LANGUAGE	ENGLISH
MODE	STEREO	AV-2 OUTPUT	TV
EFFECT	OFF		
PICTURE MENU		INSTALL	
BRIGHTNESS	These adjust are automatically restored when APS bit in Service menu is set. The procedure for setting APS bit is described bellow.	PROGRAMME	Refer to the INSTRUCTION BOOK
CONTRAST		BAND	
COLOUR		CHANNEL	
SHARPNESS		SEARCH	
HUE (only NTSC)		FINE TUNING	
PICTURE MODE	AUTO	STORE	

■ SETTING APS BIT IN SERVICE MENU

1) Enter service menu in TV mode by pressing “INFORMATION” and “MUTING” keys simultaneously. Service Menu will appear.
2) Select TX1 (TELETEXT OPTION) by pressing Up/Down keys on remote control unit.
3) Press the 7 key on remote control unit to set APS bit. (After this, bit 7 of TX1 will be “1”)
4) Press STANDARD key on remote control unit to exit service mode.
   NOTE : DO NOT TURN OFF THE TV BY USING POWER BUTTON ON THE FRONT PANEL.

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

1. **You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.**
2. **Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
3. Make sure that AC power is turned on correctly.
4. Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts which are not specified in the list for this adjustment - variable resistors, transformers, condensers, etc.
7. Presetting before adjustment.
   Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

BRIGHTNESS CONTRAST COLOUR	CENTER
SHARPNESS	

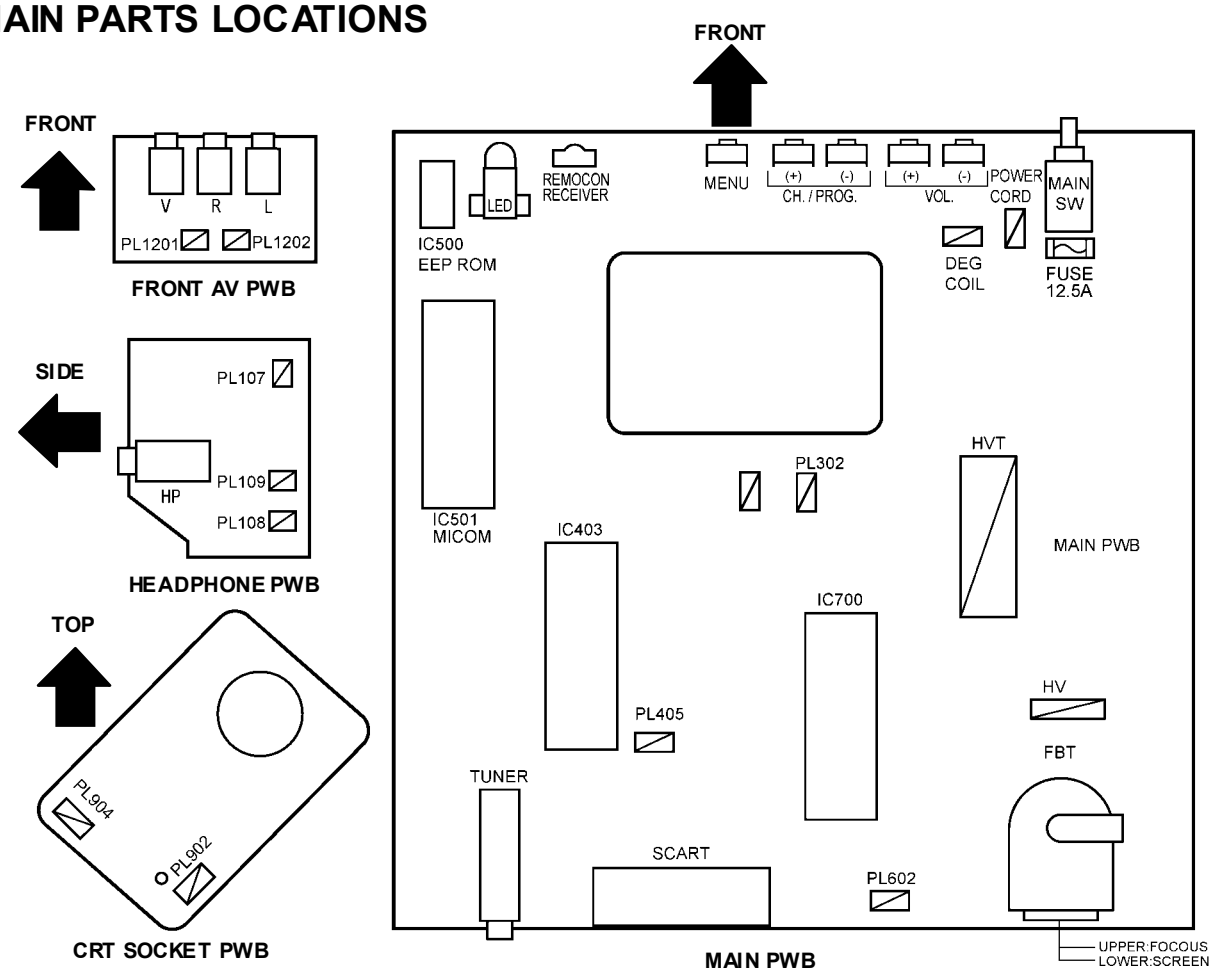
ADJUSTMENT EQUIPMENT

1. DC voltmeter (or digital voltmeter)
2. Signal generator (Pattern generator) [PAL/SECAM/NTSC]
3. Remote control unit

ADJUSTMENT ITEM

- SCREEN ADJUSTMENT
- OSD HORIZONTAL POSITION ADJUSTMENT
- IF ADJUSTMENT
- AGC AUTOMATICALLY ADJUSTMENT
- DEFLECTION CIRCUIT ADJUSTMENT
- GEOMETRY MENU ADJUSTMENT
- WHITE BALANCE ADJUSTMENT

MAIN PARTS LOCATIONS



AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

BASIC OPERATION SERVICE MENU

■ HOW TO ENTER THE SERVICE MENU

1) Press the **MENU** key.
2) MENU screen of fig.1 will be displayed

MENU SCREEN

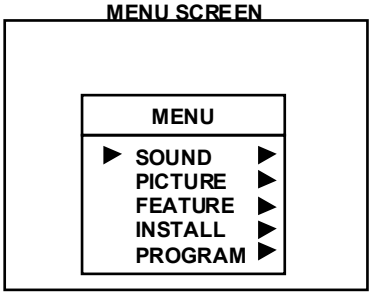


Fig.1

3) While the MENU screen is displayed , press the 4,7,2,5 key or INFORMATION key and MUTING key simultaneously.
4) The SERVICE MENU screen of (Fig.2) will be displayed.

SERVICE MENU

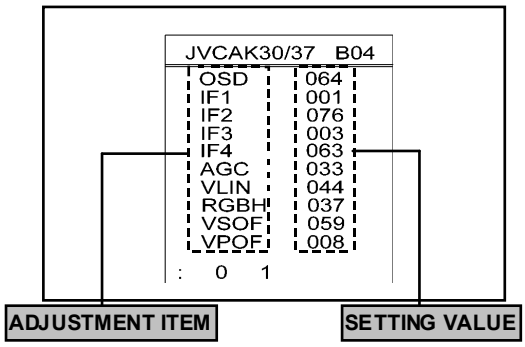


Fig.2

■ SELECTION OF ADJUSTMENT ITEMS

1) Enter the SERVICE MENU
2) Press the FUNCTION ▲/▼ key and select the ADJUSTMENT ITEM.
3) Press the FUNCTION ◀/▶ key and set the SETTING VALUE.

■ HOW TO EXIT SERVICE MODE

1) Press the **STANDARD** Key on REMOTE CONTROL UNIT.

■ HOW TO ENTER THE GEOMETRY MENU

- This model is built-in GEOMETRY MENU for geometry adjustment.

1) Enter the SERVICE MENU
2) Press the GREEN key, geometry menu appears (Fig. 3).
3) Press the FUNCTION ▲/▼ key and select the ADJUSTMENT ITEM.
4) Press the FUNCTION ◀/▶ key and set the SETTING VALUE.

GEOMETRY MENU

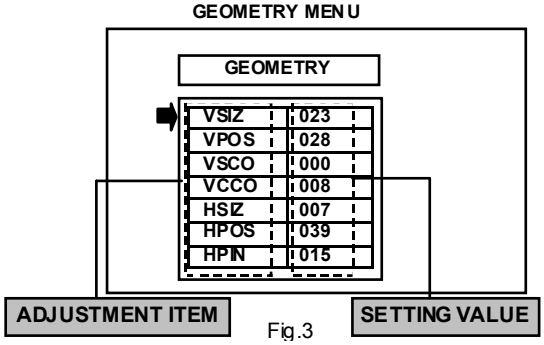
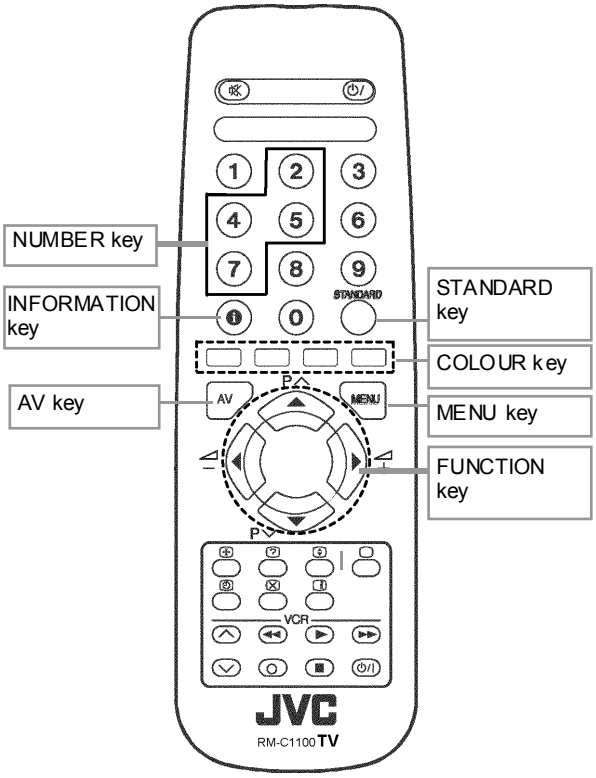


Fig.3

REMOTE CONTROL UNIT key NAME



- **FUNCTION OF COLOUR key**

RED key :
It switches the AVL to ON or OFF mode on service menu. AVL word is visible on service menu when AVL is on.

GREEN key :
It switches to GEOMETRY adjust menu. Geometry of the picture is adjusted in this menu.

YELLOW key :
It switches to VERTICAL SCAN DISABLE mode. It is useful to adjust screen voltage.

BLUE key :
It is used to adjust AGC and IF automatically on service menu.

■ ADJUSTMENT ITEM & INITIAL (Recommended) SETTING VALUE in the SERVICE MENU

1/2

ADJUSTMENT ITEM	DESCRIPTION	INITIAL VALUE
OSD	HORIZONTAL POSITION OF OSD	082
IF1	IF COARSE ADJUSTMENT	004
IF2	IF FINE ADJUSTMENT	065
IF3	IF COARSE ADJUSTMENT FOR L-PRIME	004
IF4	IF FINE ADJUSTMENT FOR L-PRIME	065
AGC	AUTOMATIC GAIN CONTROL	Automatically
VLIN	VERTICAL LINEARITY	045
RGBH	RGB MODE HORIZONTAL SHIFT OFFSET	007
VSOF	VERTICAL SIZE OFFSET for 60Hz	-01
VPOF	VERTICAL POSITION OFFSET for 60Hz	-01
HSOF	HORIZONTAL SIZE OFFSET for 60Hz	Not used
HPOF	HORIZONTAL POSITION OFFSET for 60Hz	+00
HTOF	HORIZONTAL TRAPEZOID OFFSET for 60Hz	Not used
WR	WHITE POINT ADJUSTMENT FOR RED	040
WG	WHITE POINT ADJUSTMENT FOR GREEN	040
WB	WHITE POINT ADJUSTMENT FOR BLUE	040
BR	BIAS FOR RED	030
BG	BIAS FOR GREEN	031
APR	AUTOMATIC RGB PEAK REGULATION THRESHOLD	010
BRI	BRIGHTNESS	030
CON	CONTRAST	035
COL	COLOUR	038
SHR	SHARP	006
HUE	HUE	031
VOL	VOLUME	015
WR-R	WHITE POINT ADJUSTMENT for RED (RGBmode)	030
WG-R	WHITE POINT ADJUSTMENT for GREEN (RGBmode)	055
WB-R	WHITE POINT ADJUSTMENT for BLUE (RGBmode)	032
FMP1	FM PRESCALER WHEN AVL IS OFF	009
NIP1	NICAM PRESCALER WHEN AVL IS OFF	020
SCP1	SCART PRESCALER WHEN AVL IS OFF	013
SEC1	SECAM PRESCALER WHEN AVL IS OFF	013
FMP2	FM PRESCALER WHEN AVL IS ON	013
NIP2	NICAM PRESCALER WHEN AVL IS ON	016
SCP2	SCART PRESCALER WHEN AVL IS ON	013
SEC2	SECAM PRESCALER WHEN AVL IS ON	013
F1H	HIGH BYTE OF VHF1-VHF3 CROSS-OVER FREQUENCY	00001001
F1L	LOW BYTE OF VHF1-VHF3 CROSS-OVER FREQUENCY	10010010
F2H	HIGH BYTE OF VHF3-UHF CROSS-OVER FREQUENCY	00011011
F2L	LOW BYTE OF VHF3-UHF CROSS-OVER FREQUENCY	10000010
BS1	BAND SWITCHING BYTE FOR VHF1	00000011
BS2	BAND SWITCHING BYTE FOR VHF3	00000110
BS3	BAND SWITCHING BYTE FOR UHF	10000101
CB	CONTROL BYTE	10001110
OP1	PERIPHERAL OPTIONS	01110101

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

■ ADJUSTMENT ITEM & INITIAL (Recommended) SETTING VALUE in the SERVICE MENU

ADJUSTMENT ITEM	DESCRIPTION	INITIAL VALUE
OP2	RECEPTION STANDARD OPTIONS	00001001 (EN) 01001001 (EP) 00011001 (EE)
OP3	VIDEO OPTIONS	01101101 (EN) 11101101 (EP/EE)
OP4	TV FEATURES	10001000
OP5	CHANNEL TABLES	00000000
TX1	TELETEXT OPTIONS	10010101 (EN) 10000101 (EP) 10001101 (EE)
GEOM	GEOMETRY OPTIONS	00000000
OP8	PIP PRESET CHANGE	00000000

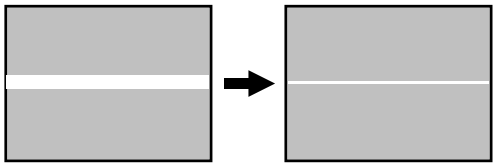
- **[GEOMETRY MENU]**

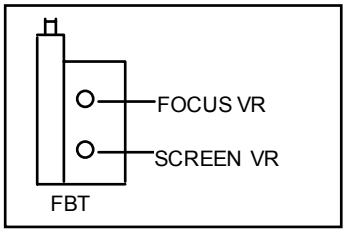
ADJUSTMENT ITEM	DESCRIPTION	INITIAL VALUE
VSIZ	VERTICAL SIZE for 50Hz	030
VPOS	VERTICAL POSITION for 50Hz	010
CSCO	VERTICAL S-CORRECTION for 50Hz	Not used
VCCO	VERTICAL CORNER CORRECTION for 50Hz	Not used
HSIZ	HORIZONTAL SIZE for 50Hz	Not used
HPOS	HORIZONTAL POSITION for 50Hz	035
HPIN	HORIZONTAL PINCUSHION for 50Hz	Not used
HCCO	HORIZONTAL CORNER CORRECTION for 50Hz	Not used
HTRP	HORIZONTAL TRAPEZOID for 50Hz	Not used
VZSZ	VERTICAL ZOOM SIZE for 50Hz	Not used

ADJUSTMENTS

■ SCREEN ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
SCREEN adjustment	**Remote control unit**		**SCREEN VR [On the FBT]**	1. Enter SERVICE MENU. 2. Press YELLOW key to disable vertical scan. 3. Adjust SCREEN VR. on the FBT as thin as possible. 4. Press YELLOW key again to enable vertical scan. 5. Press STANDARD key to leave service menu.

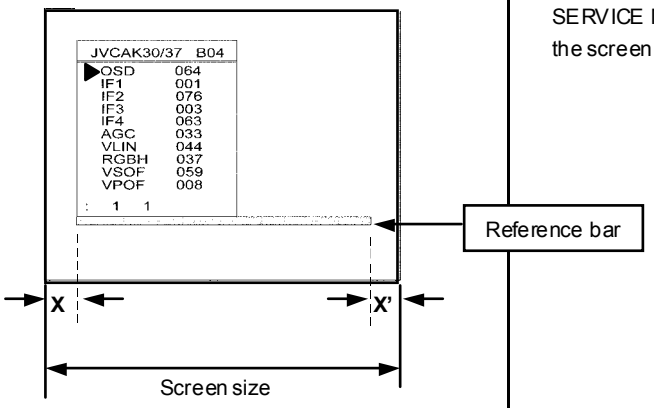




■ OSD HORIZONTAL POSITION ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
HORIZONTAL POSITION OF OSD adjustment	**Remote control unit**		**OSD**	1. Enter SERVICE MENU. 2. Select OSD with FUNCTION (▲/▼) key 3. Adjust the OSD horizontal position with the FUNCTION (◀/▶) key, which shifts the reference bar on the bottom of the SERVICE MENU horizontally, so that the OSD is positioned on the screen center. (**X=X'**)

SERVICE MENU SCREEN



■ IF ADJUSTMENT

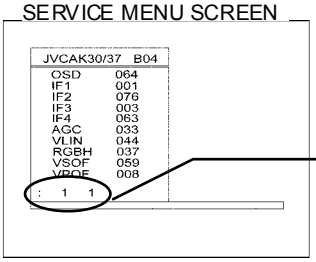
Item	Measuring instrument	Test point	Adjustment part	Description
IF adjustment	**Remote control unit**		**IF 1** **IF 2** **IF 3** **IF 4**	1. Receive a PAL colour bar pattern. 2. Enter SERVICE MENU. 3. Select IF 1 with FUNCTION (▲/▼) key 4. Press BLUE key during IF 1 is highlighted, IF 1 and IF 2 values are adjusted automatically by software. 5. If the standard is L-prime, IF 3 and IF 4 values are adjustment automatically when BLUE key is pressed during IF 1 is highlighted.

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

■ AGC AUTOMATICALLY ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
AGC AUTOMATIC-ALLY adjustment & check	**Remote control unit**		**AGC**	1. Enter SERVICE MENU. 2. Receive a 60dB μV RF signal level. 3. Select AGC with the FUNCTION (▲/▼) key. 4. Press BLUE key on the remote control unit. 5. Then the adjustment will be done automatically by software. 6. See the AGC indicator on SERVICE MENU, it must be "1". 7. Check that picture is normal at 90dB μV signal level.

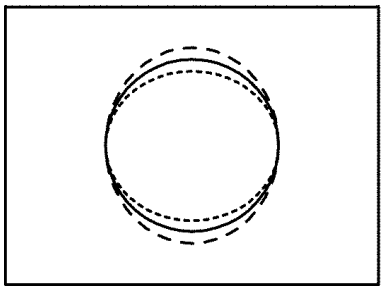
SERVICE MENU SCREEN



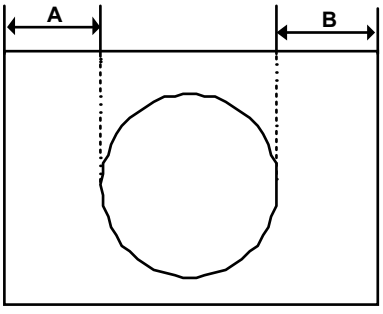
:	1	1
IF INDICATOR	**AGC INDICATOR**	**NONE**

■ DEFLECTION CIRCUIT ADJUSTMENT

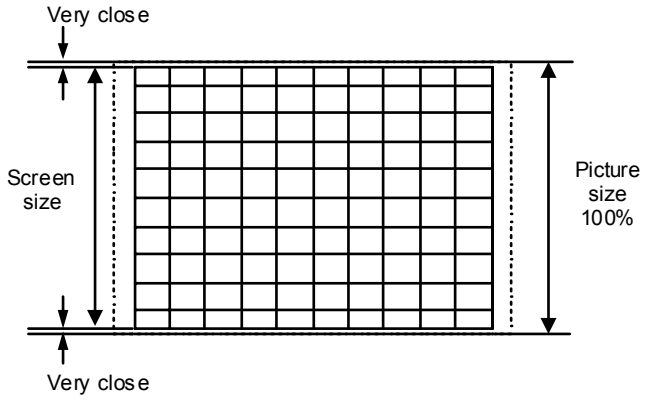
Item	Measuring instrument	Test point	Adjustment part	Description
VERTICAL LINEARITY adjustment	**Signal generator** **Remote control unit**		**VLIN**	1. Receive a PAL B/G circle pattern. 2. Enter SERVICE MENU. 3. Select VLIN with the FUNCTION (▲/▼) key. 4. Adjust VLIN with the FUNCTION (◀/▶) key until circle as round as possible.

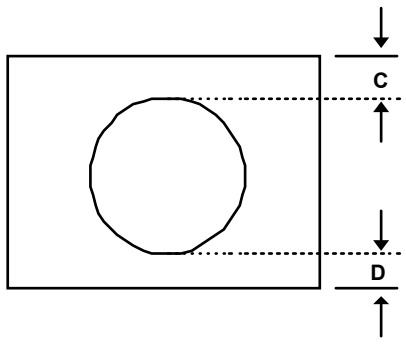


RGB MODE HORIZONTAL SHIFT OFFSET adjustment	**Signal generator** **Remote control unit**		**RGBH**	1. Input R/G/B circle pattern signal via video input terminal. 2. Press AV key on the remote control unit, force the TV to RGB mode. 3. Enter SERVICE MENU. 4. Select RGBH with the FUNCTION (▲/▼) key. 5. Adjust RGBH with the FUNCTION (◀/▶) key until the circle pattern is horizontally centered.(**A**=**B**) 6. Check and readjust RGBH item if the adjustment becomes improper after some other geometric adjustments are done.



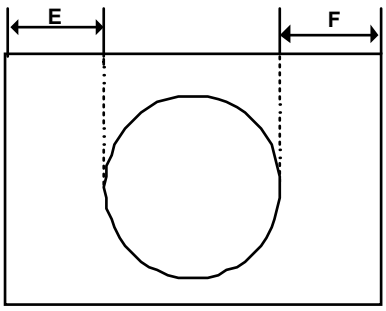
Item	Measuring instruments	Test point	Adjustment part	Description
VERTICAL SIZE OFFSET adjustment (60Hz)	**Signal generator** **Remote control unit**		**VSOF**	1. Receive a NTSC-M cross-hatch pattern of vertical frequency 60Hz. 2. Enter SERVICE MENU. 3. Select VSOF with the FUNCTION (▲/▼) key. 4. Adjust VSOF with the FUNCTION (◄/►) key until the horizontal black lines on both the upper and lower part of the pattern become very close to the upper and lower horizontal sides of picture size and nearly about to disappear. 5. Check and readjust VSOF item if the adjustment becomes improper after some other geometric adjustments are done.
VERTICAL POSITION OFFSET Adjustment (60Hz)	**Signal generator** **Remote control unit**		**VPOF**	1. Receive a NTSC-M circle pattern of vertical frequency 60Hz. 2. Enter SERVICE MENU. 3. Select VPOF with the FUNCTION (▲/▼) key. 4. Adjust VPOF with the FUNCTION (◄/►) key until the picture is vertically centered.(**C=D**) 5. Check and readjust vertical position item if the adjustment becomes improper after some other geometric adjustments are done.





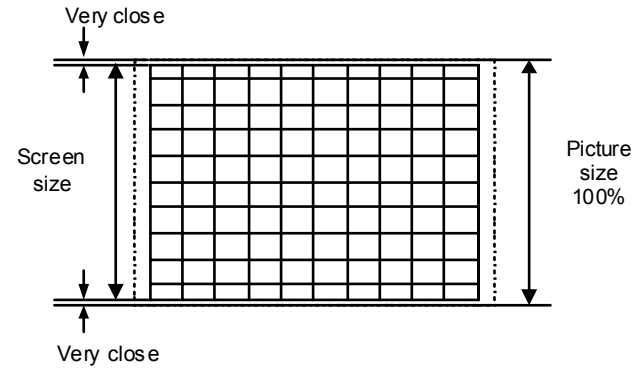
AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

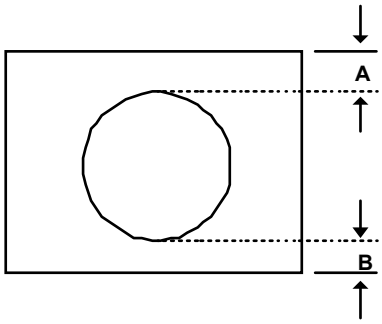
Item	Measuring instruments	Test point	Adjustment part	Description
HORIZONTAL POSITION OFFSET adjustment (60Hz)	**Signal Generator** **Remote control unit**		**HPOF**	1. Receive a NTSC-M circle pattern signal of vertical frequency 60Hz. 2. Enter SERVICE MENU. 3. Select HPOF with the FUNCTION (▲/▼) key. 4. Adjust HPOF with the FUNCTION (◀/▶) key until the circle pattern is horizontally centered.(**E=F**) 5. Check and readjust a horizontal position item if the adjustment becomes improper after some other geometric adjustments are done.

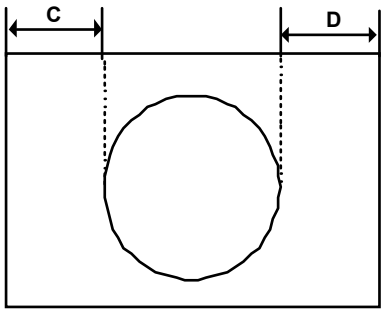


■ GEOMETRY MENU ADJUSTMENT

Item	Measuring instruments	Test point	Adjustment part	Description
VERTICAL SIZE adjustment (50Hz)	**Signal generator** **Remote control unit**		**VSIZ**	1. Receive a PAL B/G cross-hatch pattern of vertical frequency 50Hz. 2. Enter SERVICE MENU. 3. Press the GREEN then enter the GEOMETRY MENU. 4. Select VSIZ (Vertical size) with the FUNCTION (▲/▼) key. 5. Adjust VSIZ with the FUNCTION (◀/▶) key until the horizontal black lines on both the upper and lower part of the pattern become very close to the upper and lower horizontal sides of picture size and nearly about to disappear. 6. Check and readjust VS2B item if the adjustment becomes improper after some other geometric adjustments are done.
VERTICAL POSITION adjustment (50Hz)	**Signal generator** **Remote control unit**		**VPOS**	1. Receive a PAL B/G circle pattern signal of vertical frequency 50Hz. 2. Enter GEOMETRY MENU. 3. Select VPOS (Vertical position) with the FUNCTION (▲/▼) key. 4. Adjust VPOS with the FUNCTION (◀/▶) key until the circle pattern is vertically centered.(**A=B**) 5. Check and readjust VPOS item if the adjustment becomes improper after some other geometric adjustments are done.
HORIZONTAL POSITION adjustment (50Hz)	**Signal generator** **Remote control unit**		**HPOS**	1. Receive a PAL B/G circle pattern signal of vertical frequency 50Hz. 2. Enter GEOMETRY MENU. 3. Select HPOS (Horizontal position)with the FUNCTION (▲/▼) key. 4. Adjust HPOS with the FUNCTION (◀/▶) key until the circle pattern is horizontally centered.(**C=D**) 5. Check and readjust HPOS item if the adjustment becomes improper after some other geometric adjustments are done.







AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

■ WHITE BALANCE ADJUSTMENT

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE adjustment (Low light)</td><td>Signal generator

Remote control unit</td><td></td><td>WR
WG
WB</td><td>1. Receive a black & white signal (colour off).
2. Enter SERVICE MENU.
3. Select WR / WG / WB with the (▲/▼) key, respectively.
4. Adjust WR / WG / WB with the FUNCTION (◄/►) key, respectively, until the white part turns to pure white without any other color..

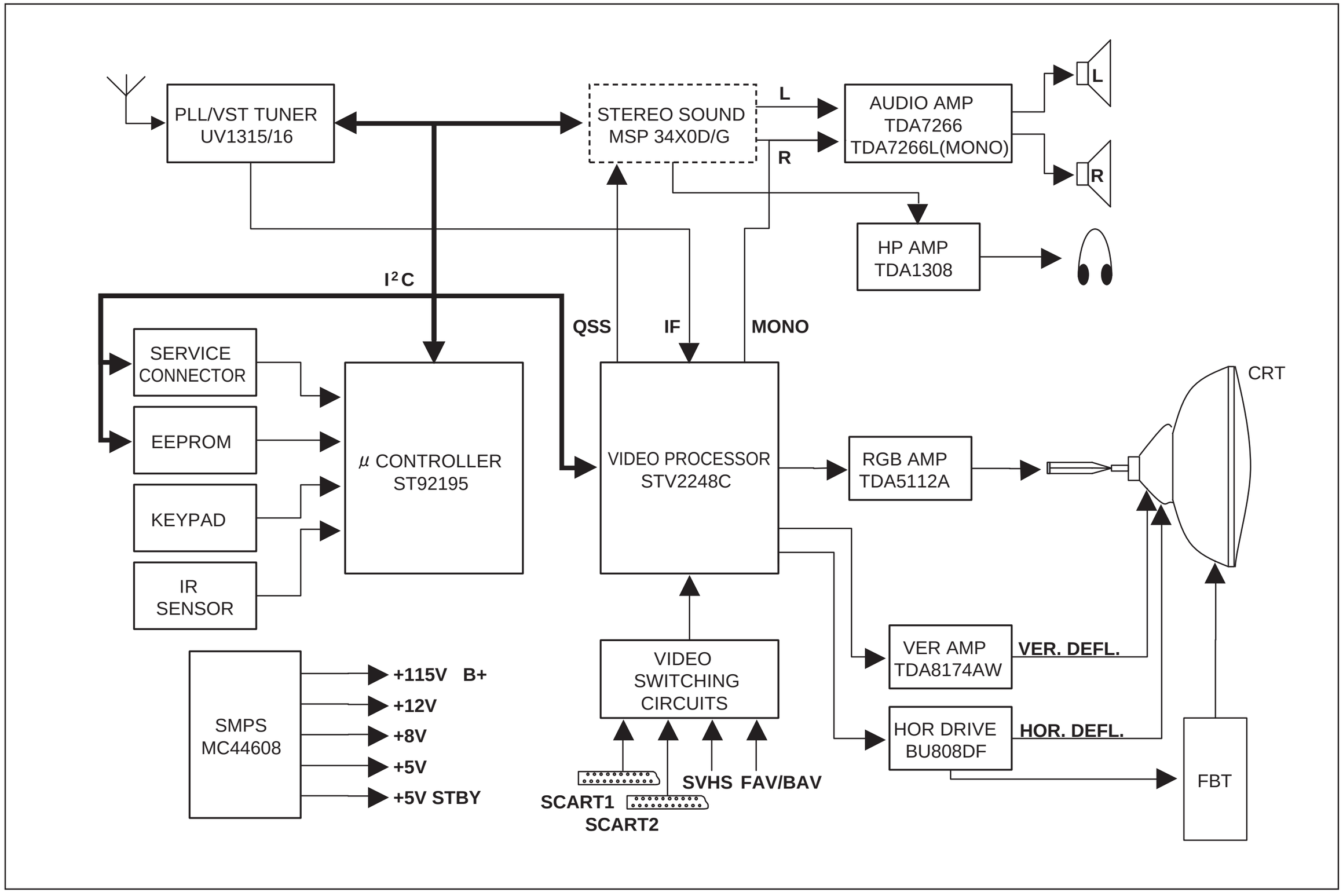
<table><tr><th>Item</th><th>WR</th><th>WG</th><th>WB</th></tr><tr><td>Recommended value</td><td>040</td><td>040</td><td>040</td></tr></table></td></tr>
<tr><td>WHITE BALANCE adjustment (High light)</td><td>Signal generator

Remote control unit</td><td></td><td>BR
BG</td><td>1. Receive a black & white signal (colour off)
2. Enter SERVICE MENU.
3. Select BR / BG with the FUNCTION (▲/▼) key respectively.
4. Adjust BR / BG with the FUNCTION (◄/►) key respectively until the white part of screen make white colour.

<table><tr><th>Item</th><th>BR</th><th>BG</th></tr><tr><td>Recommended value</td><td>030</td><td>031</td></tr></table></td></tr>
</table>

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

BLOCK DIAGRAM

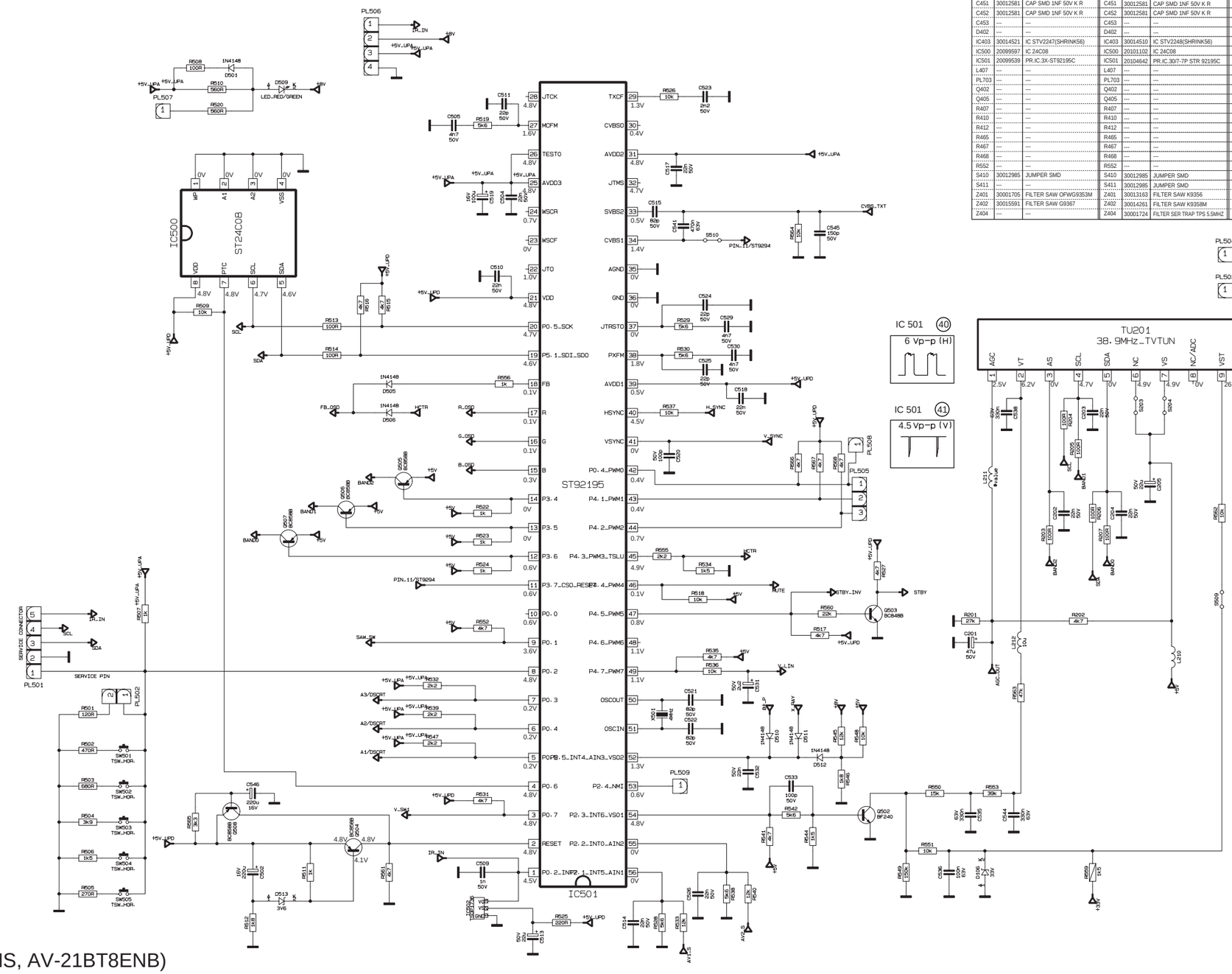


AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM [1/6]*

DIFFERENCE LIST

EN			EE			EP		
C446	---	---	C446	---	---	C446	30000345	CAP EL 10UF 50V M
C451	30012581	CAP SMD 1NF 50V K R	C451	30012581	CAP SMD 1NF 50V K R	C451	30012589	CAP SMD 4.7NF 50V K R
C452	30012581	CAP SMD 1NF 50V K R	C452	30012581	CAP SMD 1NF 50V K R	C452	30012589	CAP SMD 4.7NF 50V K R
C453	---	---	C453	---	---	C453	30012581	CAP SMD 1NF 50V K R
D402	---	---	D402	---	---	D402	30012411	DIODE BA782 SMD
IC403	30014521	IC STV2247(SHRINK56)	IC403	30014510	IC STV2248(SHRINK56)	IC403	30014510	IC STV2248(SHRINK56)
IC500	20099597	IC 24C08	IC500	20101102	IC 24C08	IC500	20101107	IC 24C08
IC501	20099539	PR.IC.3X-ST92195C	IC501	20104642	PR.IC.30/7-7P STR 92195C	IC501	20099539	PR.IC.3X-ST92195C
L407	---	---	L407	---	---	L407	30002002	FIXED COIL 47UH Q60 K
PL703	---	---	PL703	---	---	PL703	30009849	CABLE 0.6MM BLUE (7CM)
Q402	---	---	Q402	---	---	Q402	30001457	TR BC848B SMD
Q405	---	---	Q405	---	---	Q405	30001457	TR BC848B SMD
R407	---	---	R407	---	---	R407	30000471	RES CF 1/4W 10K J
R410	---	---	R410	---	---	R410	30000471	RES CF 1/4W 10K J
R412	---	---	R412	---	---	R412	30012696	RES SMD 1/16W 47K J
R465	---	---	R465	---	---	R465	30012692	RES SMD 1/16W 4.7K J
R467	---	---	R467	---	---	R467	30012641	RES SMD 1/16W 10K J
R468	---	---	R468	---	---	R468	30012641	RES SMD 1/16W 10K J
R552	---	---	R552	---	---	R552	30012692	RES SMD 1/16W 4.7K J
S410	30012985	JUMPER SMD	S410	30012985	JUMPER SMD	S410	30012985	JUMPER SMD
S411	---	---	S411	30012985	JUMPER SMD	S411	---	---
Z401	30001705	FILTER SAW OFWG9353M	Z401	30013163	FILTER SAW K9356	Z401	30013163	FILTER SAW K9356
Z402	30015591	FILTER SAW G9367	Z402	30014261	FILTER SAW K9358M	Z402	30014261	FILTER SAW K9358M
Z404	---	---	Z404	30001724	FILTER SER TRAP TPS 5.5MHZ	Z404	30001724	FILTER SER TRAP TPS 5.5MHZ

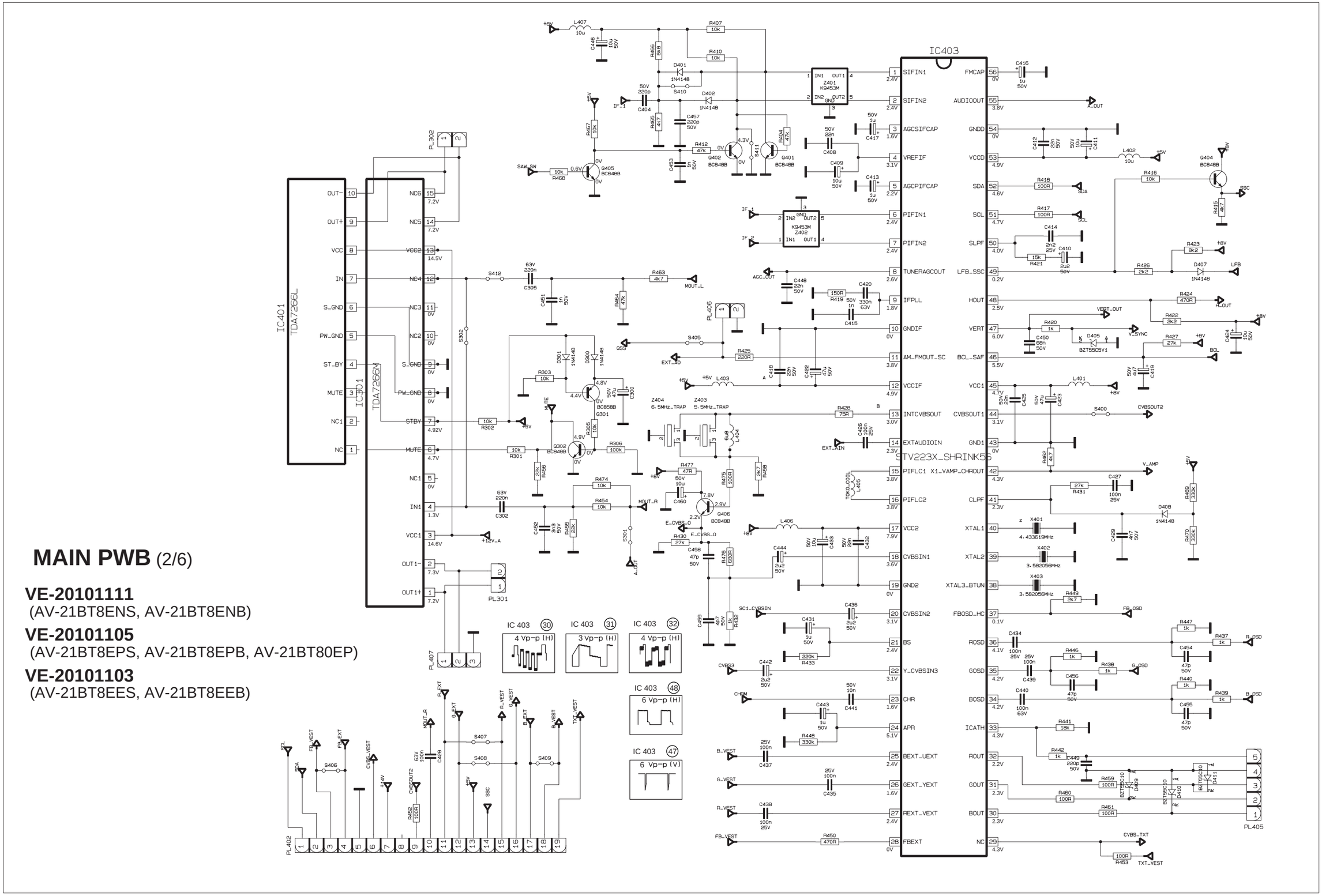


MAIN PWB (1/6)

VE-20101111 (AV-21BT8ENS, AV-21BT8ENB)
VE-20101105 (AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
VE-20101103 (AV-21BT8EES, AV-21BT8EEB)

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

MAIN PWB CIRCUIT DIAGRAM [2/6]



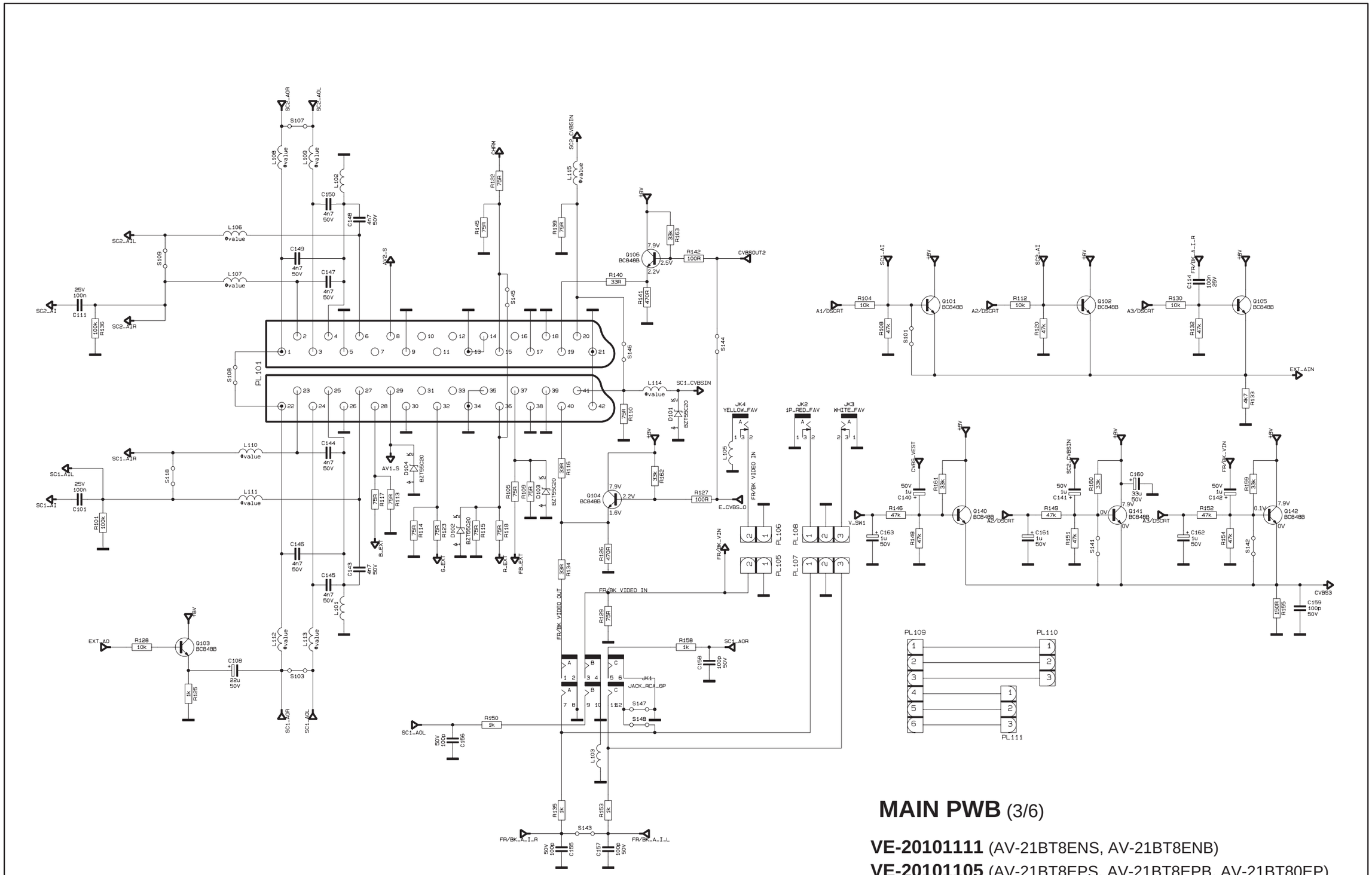
MAIN PWB (2/6)

VE-20101111
(AV-21BT8ENS, AV-21BT8ENB)

VE-20101105
(AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)

VE-20101103
(AV-21BT8EES, AV-21BT8EEB)

MAIN PWB CIRCUIT DIAGRAM [3/6]

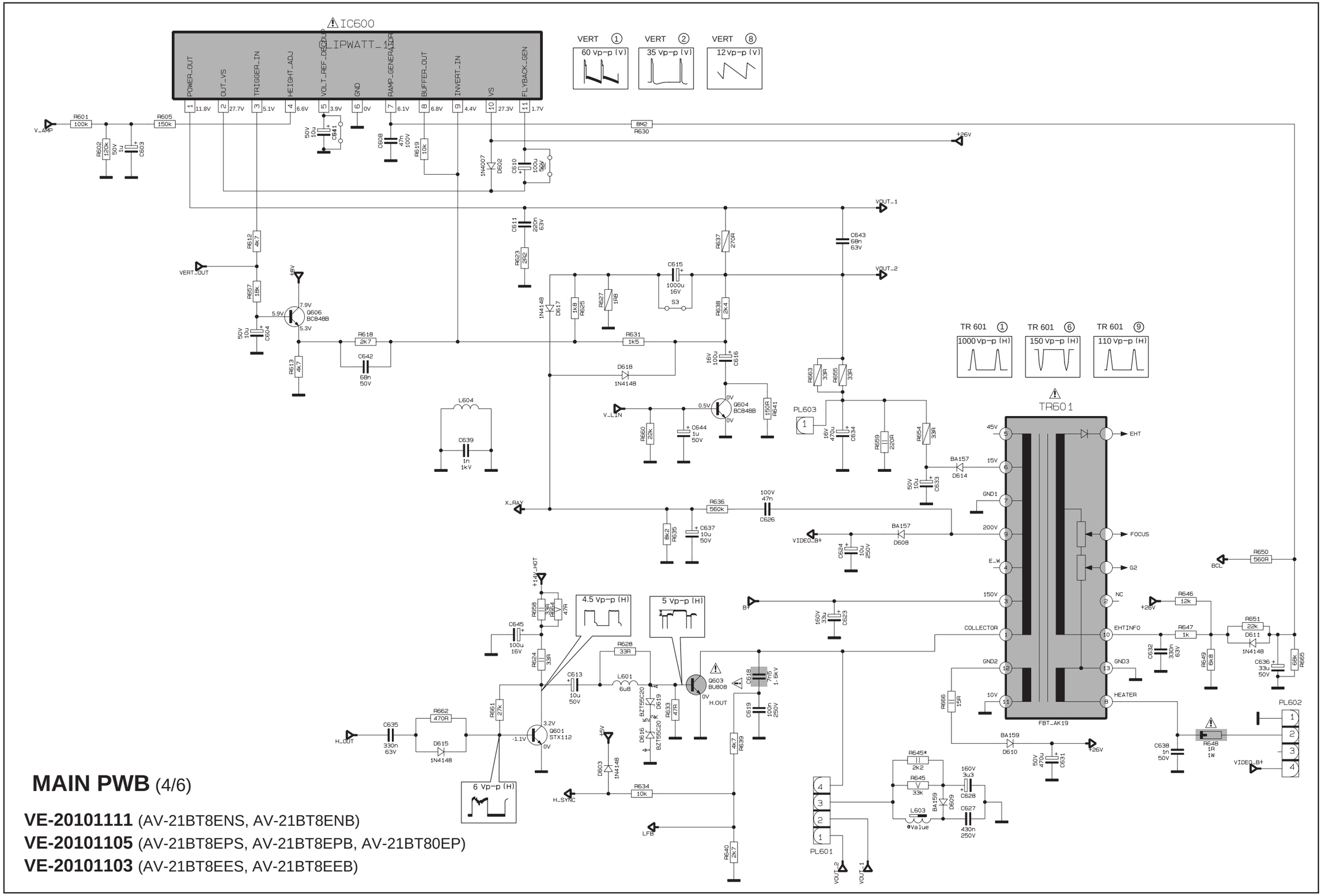


MAIN PWB (3/6)

VE-20101111 (AV-21BT8ENS, AV-21BT8ENB)
VE-20101105 (AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
VE-20101103 (AV-21BT8EES, AV-21BT8EEB)

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

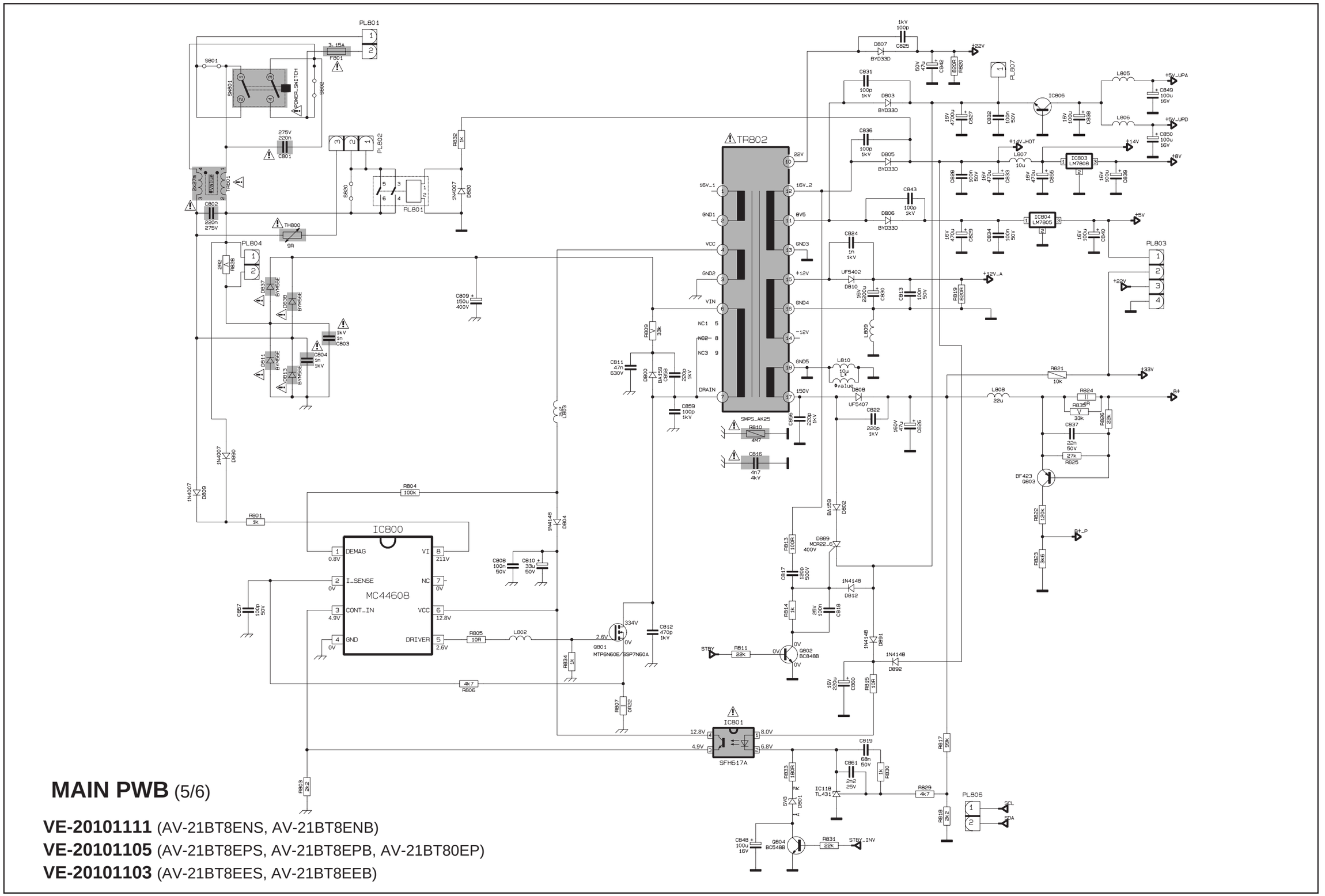
MAIN PWB CIRCUIT DIAGRAM [4/6]



MAIN PWB (4/6)

VE-20101111 (AV-21BT8ENS, AV-21BT8ENB)
VE-20101105 (AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
VE-20101103 (AV-21BT8EES, AV-21BT8EEB)

MAIN PWB CIRCUIT DIAGRAM [5/6]

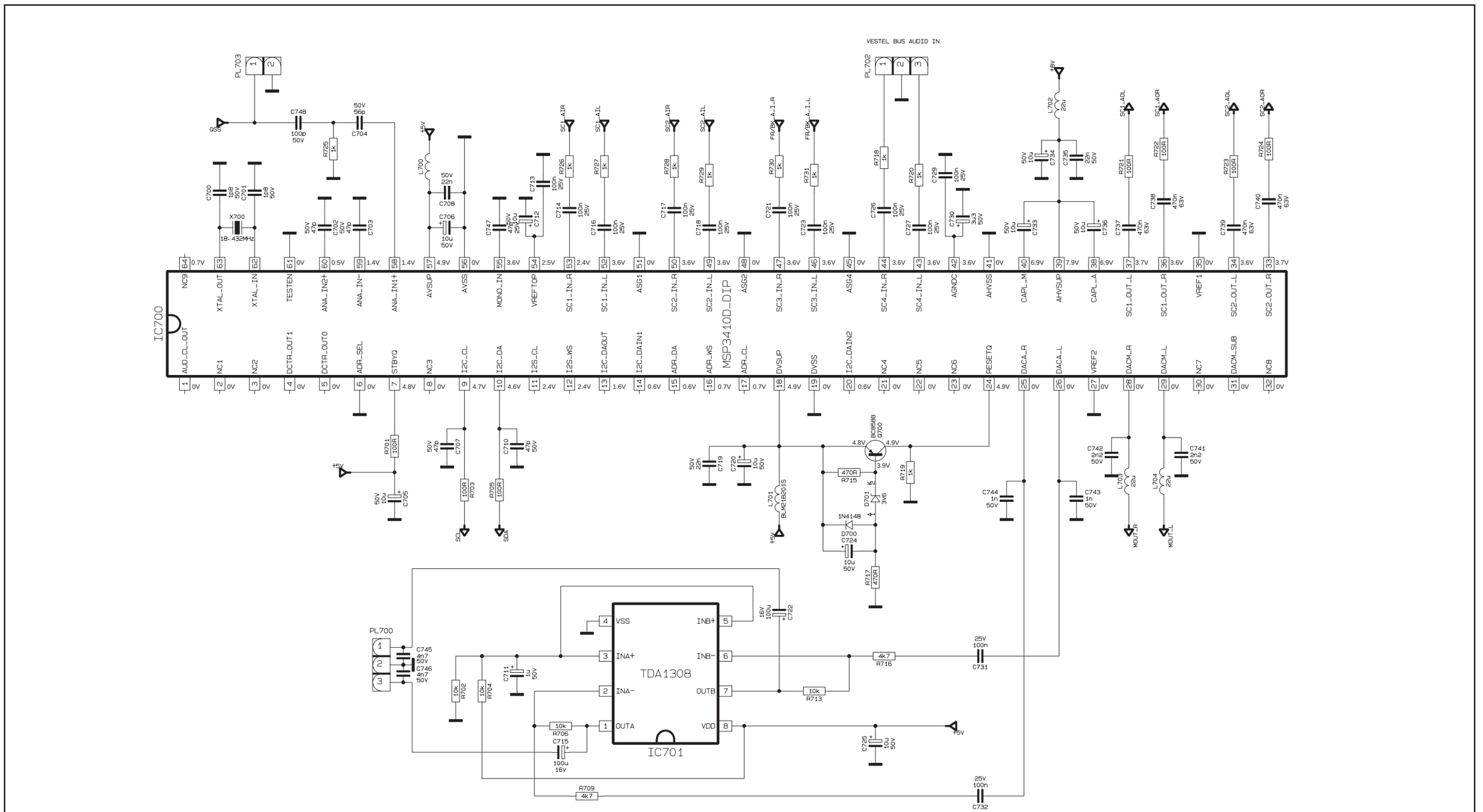


MAIN PWB (5/6)

VE-20101111 (AV-21BT8ENS, AV-21BT8ENB)
VE-20101105 (AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
VE-20101103 (AV-21BT8EES, AV-21BT8EEB)

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

MAIN PWB CIRCUIT DIAGRAM [6/6]

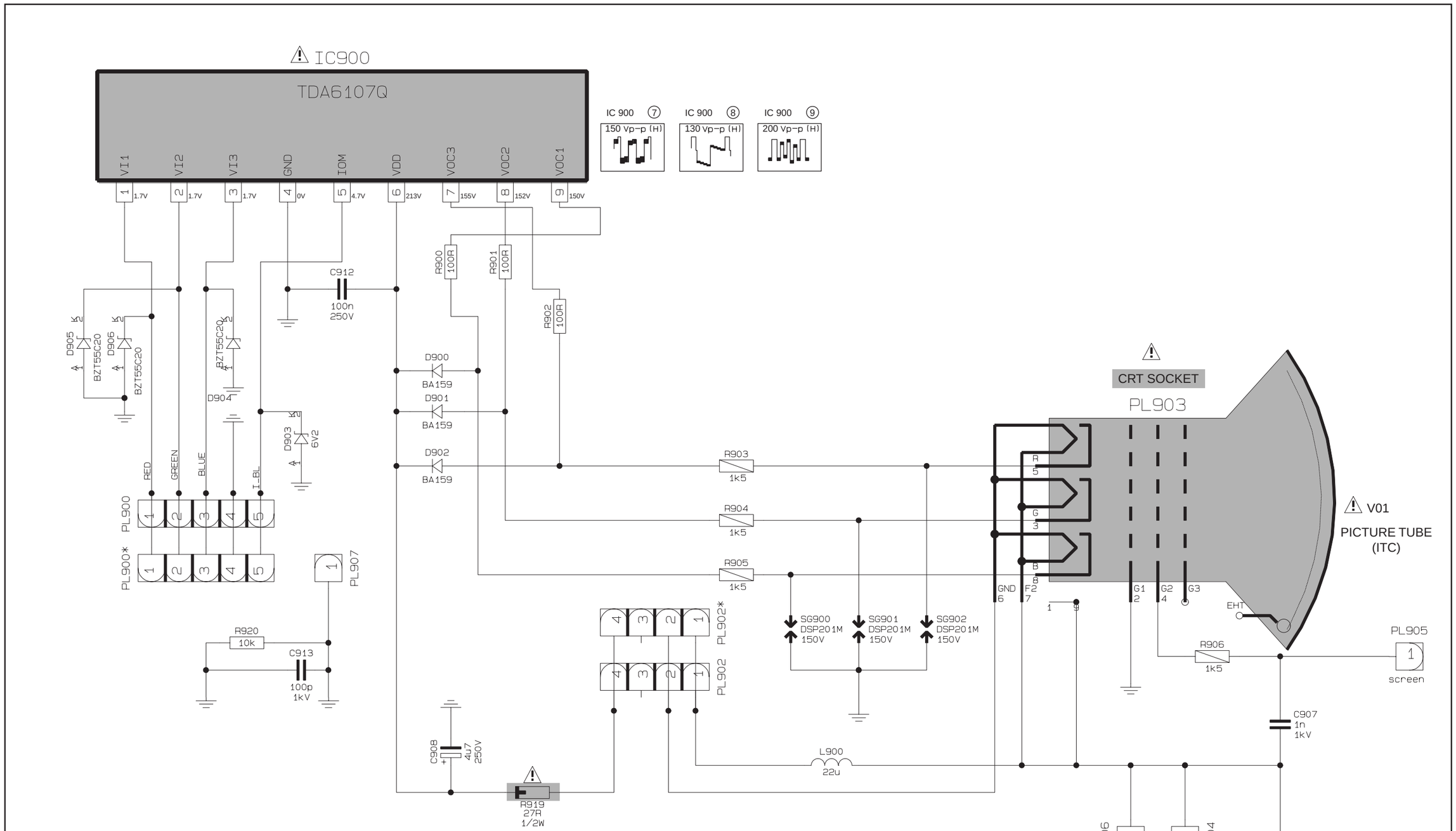


MAIN PWB (6/6)

VE-20101111 (AV-21BT8ENS, AV-21BT8ENB)
VE-20101105 (AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
VE-20101103 (AV-21BT8EES, AV-21BT8EEB)

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

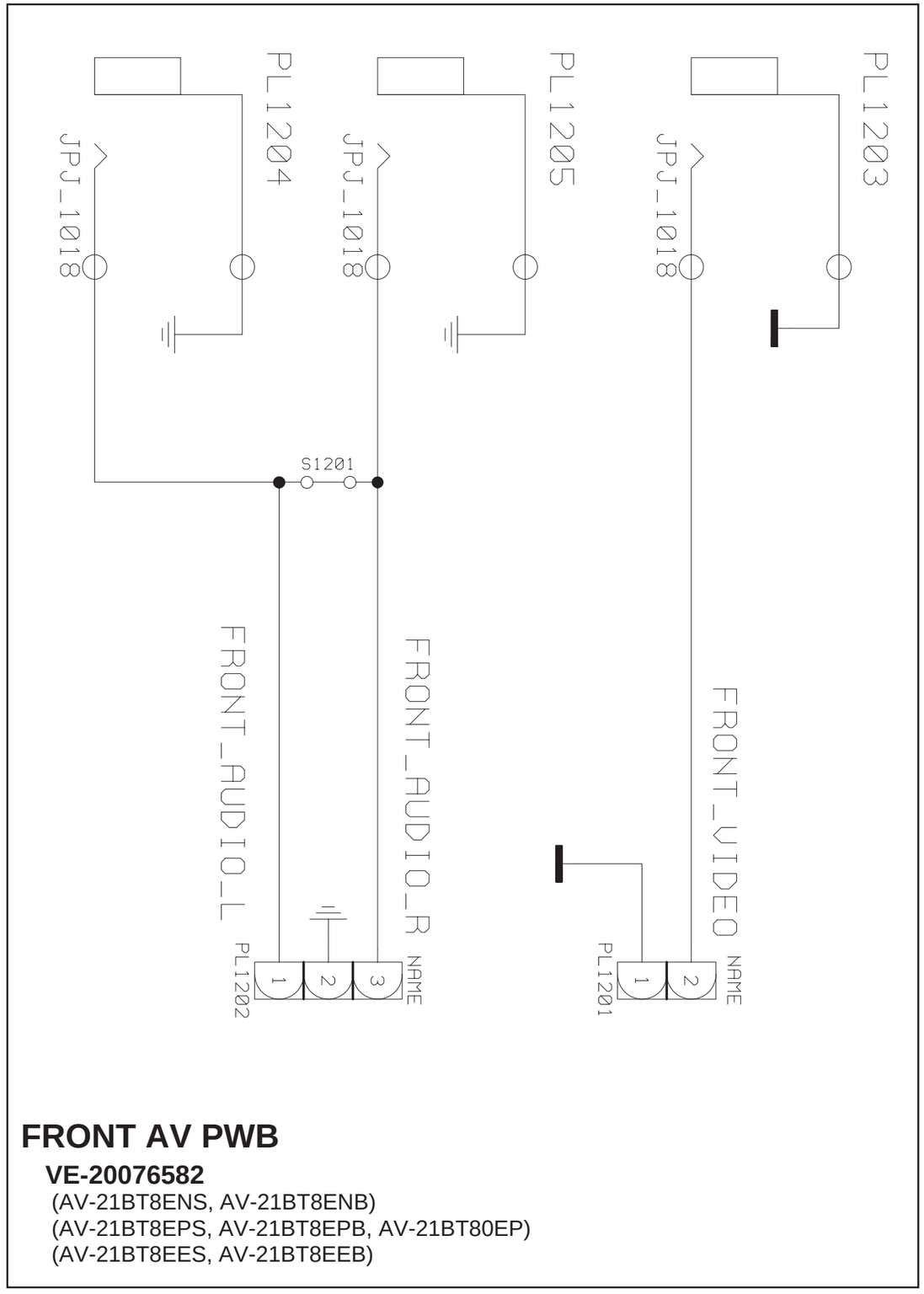
CRT SOCKET PWB CIRCUIT DIAGRAM



CRT SOCKET PWB (within MAIN PWB)

VE-20101111 (AV-21BT8ENS, AV-21BT8ENB)
VE-20101105 (AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
VE-20101103 (AV-21BT8EES, AV-21BT8EEB)

FRONT AV PWB CIRCUIT DIAGRAM



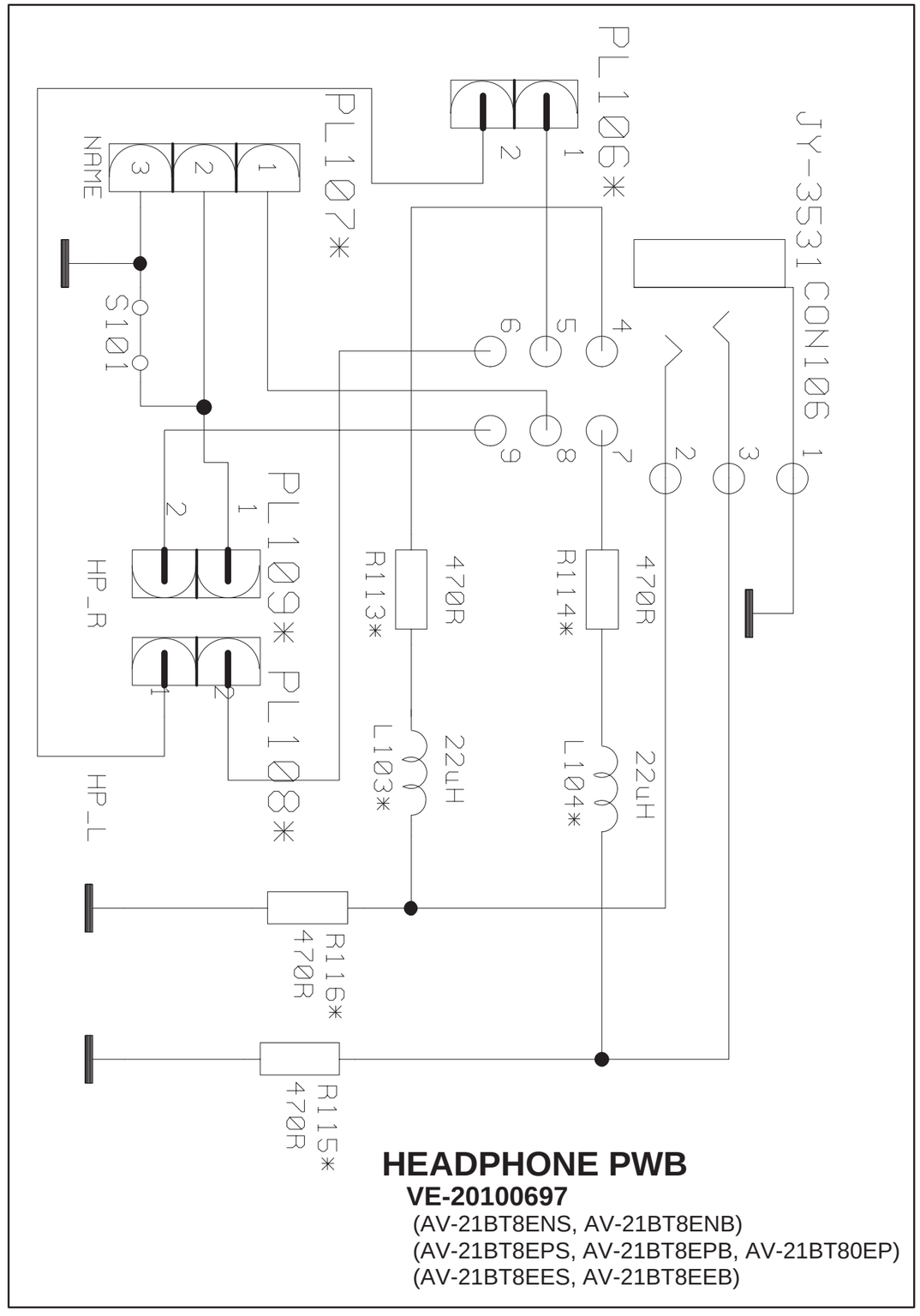
FRONT AV PWB

VE-20076582

(AV-21BT8ENS, AV-21BT8ENB)
(AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
(AV-21BT8EES, AV-21BT8EEB)

AV-21BT8ENS / AV-21BT8ENB
AV-21BT8EPS / AV-21BT8EPB
AV-21BT8EES / AV-21BT8EEB
AV-21BT80EP

HEADPHONE PWB CIRCUIT DIAGRAM



HEADPHONE PWB

VE-20100697

(AV-21BT8ENS, AV-21BT8ENB)
(AV-21BT8EPS, AV-21BT8EPB, AV-21BT80EP)
(AV-21BT8EES, AV-21BT8EEB)

PARTS LIST

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[AV-21BT8ENS / AV-21BT8ENB]

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[AV-21BT8EPS / AV-21BT8EPB / AV-21BT80EP]

- MAIN P.W. BOARD ASS'Y ····· 28
- FRONT AV P.W. BOARD ASS'Y ····· 31
- HEADPHONE P.W. BOARD ASS'Y ····· 31

[AV-21BT8EES / AV-21BT8EEB]

- MAIN P.W. BOARD ASS'Y ····· 32
- FRONT AV P.W. BOARD ASS'Y ····· 35
- HEADPHONE P.W. BOARD ASS'Y ····· 35

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USING PW BOARD & REMOTE CONTROL UNIT

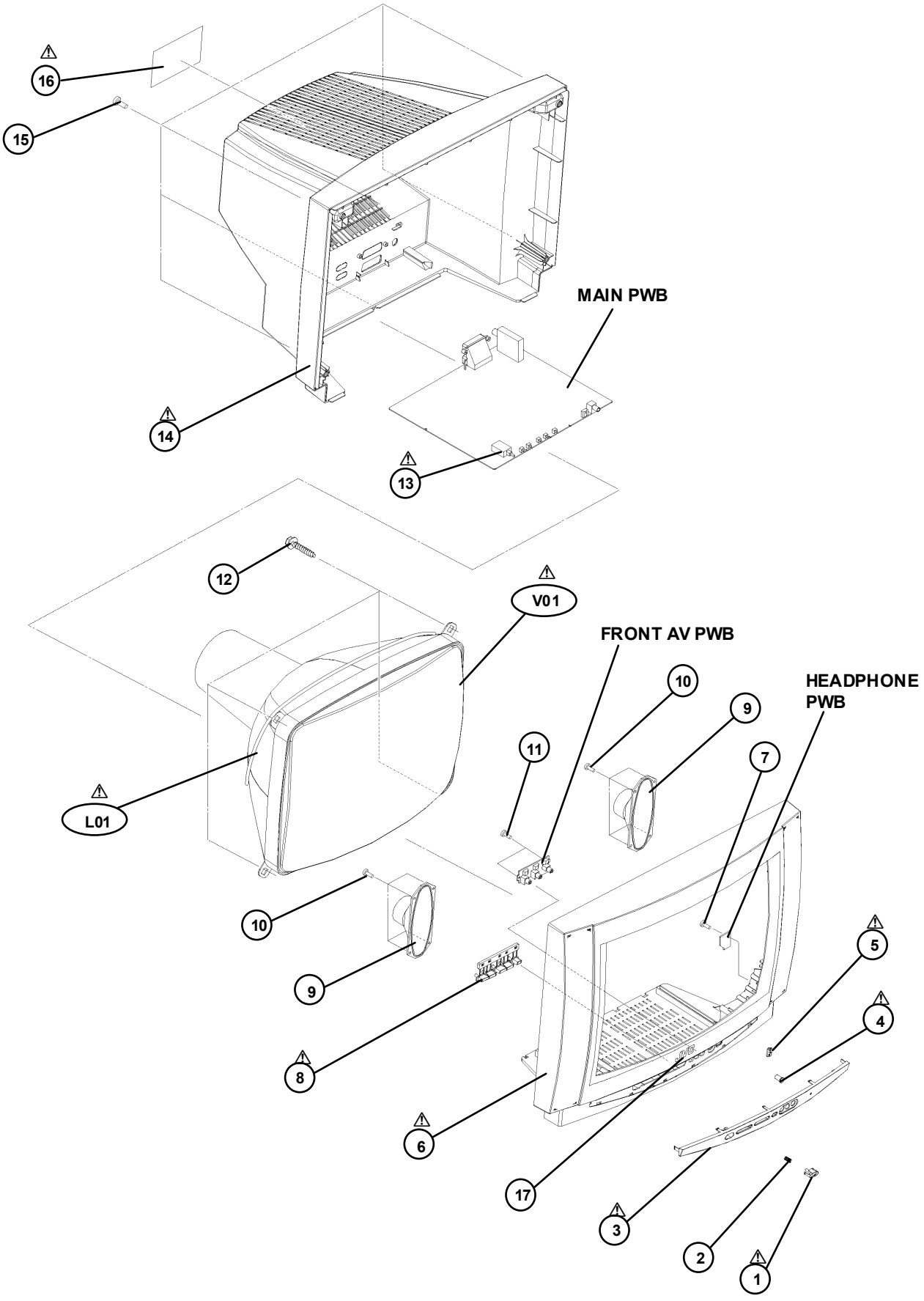
Model / PWB ASS'Y	AV-21BT8ENS AV-21BT8ENB	AV-21BT8EPS AV-21BT8EPB	AV-21BT80EP	AV-21BT8EES AV-21BT8EEB
MAIN PWB (within CRT SOCKET PWB)	VE-20101111	VE-20101105	←	VE-20101103
FRONT AV PWB	VE-20076582	←	←	←
HEADPHONE PWB	VE-20100697	←	←	←
REMOTE CONTROL UNIT	VE-30017763 (RM-C1100)	←	←	←

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	VE-30002749	PICTURE TUBE (ITC)	
⚠	L01	VE-30002124	DEG COIL & EARTH CB.	
⚠	1	VE-20072175	BUTTON ON/OFF SILVER	(SILVER MODEL)
⚠	1	VE-20056442	BUTTON ON/OFF	(BLACK MODEL)
	2	VE-35004544	SPRING ON/OFF SWITCH	
⚠	3	VE-20056445	LENS	(except AV-21BT80EP)
⚠	3	VE-20096121	LENS	(only AV-21BT80EP)
⚠	4	VE-20056446	LENS LED	
⚠	5	VE-20053831	LENS PREAMP	
⚠	6	VE-20073594	FRONT CABINET SILVER	(SILVER MODEL)
⚠	6	VE-20068238	FRONT CABINET BLACK	(BLACK MODEL)
	7	VE-35000224	SCREW (2.9X9.5)	(X1)
⚠	8	VE-20073598	BUTTON FUNCTION SILVER	(SILVER MODEL)
⚠	8	VE-20056440	BUTTON FUNCTION	(BLACK MODEL)
	9	VE-30001946	SPEAKER 8R 15W (57X160)	(X2)
	10	VE-35000224	SCREW (2.9X9.5)	(X8)
	11	VE-35000224	SCREW (2.9X9.5)	(X2)
	12	VE-35000154	SCREW (5X30)	(X4)
⚠	13	VE-30017848	SWITCH ON/OFF 2.5A/100A	
⚠	14	VE-20079486	REAR COVER SILVER	(SILVER MODEL)
⚠	14	VE-20101109	REAR COVER BLACK	(SILVER MODEL)
	15	VE-35004572	SCREW (4X20)	(X5)
⚠	16	VE-20101398	RATING LABEL	(AV-21BT8ENS)
⚠	16	VE-20101401	RATING LABEL	(AV-21BT8ENB)
⚠	16	VE-20101557	RATING LABEL	(AV-21BT8EPS)
⚠	16	VE-20101554	RATING LABEL	(AV-21BT8EPB)
⚠	16	VE-20101656	RATING LABEL	(AV-21BT8EES)
⚠	16	VE-20101601	RATING LABEL	(AV-21BT8EES POLAND)
⚠	16	VE-20101658	RATING LABEL	(AV-21BT8EEB)
⚠	16	VE-20101654	RATING LABEL	(AV-21BT8EEB POLAND)
⚠	16	VE-20101551	RATING LABEL	(AV-21BT80EP)
	17	VE-40009153	LOGO JVC	(SILVER MODEL)
	17	VE-40009151	LOGO JVC	(BLACK MODEL)

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

[AV-21BT8ENS / AV-21BT8ENB]

MAIN P.W. BOARD ASS'Y (VE-20101111)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R105	VE-30000792	CF RES.	1/4W 75R J
	R109	VE-30012713	SMD RES.	1/16W 75R J
	R110	VE-30012713	SMD RES.	1/16W 75R J
	R113	VE-30012713	SMD RES.	1/16W 75R J
	R114	VE-30012713	SMD RES.	1/16W 75R J
	R115	VE-30012713	SMD RES.	1/16W 75R J
	R116	VE-30012987	SMD RES.	1/16W 56R J
	R117	VE-30012713	SMD RES.	1/16W 75R J
	R118	VE-30000792	CF RES.	1/4W 75R J
	R122	VE-30000792	CF RES.	1/4W 75R J
	R123	VE-30000792	CF RES.	1/4W 75R J
	R126	VE-30012695	SMD RES.	1/16W 470R J
	R127	VE-30000459	CF RES.	1/4W 100R J
	R129	VE-30012713	SMD RES.	1/16W 75R J
	R135	VE-30012657	SMD RES.	1/16W 1K J
	R139	VE-30012713	SMD RES.	1/16W 75R J
	R140	VE-30012987	SMD RES.	1/16W 56R J
	R141	VE-30012695	SMD RES.	1/16W 470R J
	R142	VE-30000459	CF RES.	1/4W 100R J
	R145	VE-30012713	SMD RES.	1/16W 75R J
	R149	VE-30000752	CF RES.	1/4W 56K J
	R151	VE-30012696	SMD RES.	1/16W 47K J
	R152	VE-30000752	CF RES.	1/4W 56K J
	R153	VE-30012657	SMD RES.	1/16W 1K J
	R154	VE-30000723	CF RES.	1/4W 47K J
	R155	VE-30012649	SMD RES.	1/16W 150R J
	R201	VE-30012674	SMD RES.	1/16W 27K J
	R202	VE-30012692	SMD RES.	1/16W 4.7K J
	R204	VE-30000459	CF RES.	1/4W 100R J
	R206	VE-30000459	CF RES.	1/4W 100R J
	R301	VE-30000471	CF RES.	1/4W 10K J
	R302	VE-30000471	CF RES.	1/4W 10K J
	R303	VE-30012641	SMD RES.	1/16W 10K J
	R305	VE-30012641	SMD RES.	1/16W 10K J
	R306	VE-30012509	SMD RES.	1/16W 100K J
	R417	VE-30012510	SMD RES.	1/16W 100R J
	R418	VE-30012510	SMD RES.	1/16W 100R J
	R419	VE-30012649	SMD RES.	1/16W 150R J
	R420	VE-30000466	CF RES.	1/4W 1K J
	R421	VE-30012650	SMD RES.	1/16W 15K J
	R422	VE-30012659	SMD RES.	1/16W 2.2K J
	R423	VE-30012712	SMD RES.	1/16W 8.2K J
	R424	VE-30000712	CF RES.	1/4W 470R J
	R425	VE-30000583	CF RES.	1/4W 220R J
	R426	VE-30012659	SMD RES.	1/16W 2.2K J
	R427	VE-30012674	SMD RES.	1/16W 27K J
	R428	VE-30000792	CF RES.	1/4W 75R J
	R431	VE-30012674	SMD RES.	1/16W 27K J
	R432	VE-30012657	SMD RES.	1/16W 1K J
	R433	VE-30012667	SMD RES.	1/16W 220K J
	R437	VE-30000466	CF RES.	1/4W 1K J
	R438	VE-30000466	CF RES.	1/4W 1K J
	R439	VE-30012657	SMD RES.	1/16W 1K J
	R440	VE-30012714	SMD RES.	1/16W 820R J
	R441	VE-30012656	SMD RES.	1/16W 18K J
	R442	VE-30000466	CF RES.	1/4W 1K J
	R446	VE-30012714	SMD RES.	1/16W 820R J
	R447	VE-30012714	SMD RES.	1/16W 820R J
	R448	VE-30012683	SMD RES.	1/16W 330K J
	R449	VE-30012662	SMD RES.	1/16W 2.7K J
	R450	VE-30000712	CF RES.	1/4W 470R J
	R455	VE-30012696	SMD RES.	1/16W 47K J
	R458	VE-30012662	SMD RES.	1/16W 2.7K J
	R459	VE-30012510	SMD RES.	1/16W 100R J
	R460	VE-30012510	SMD RES.	1/16W 100R J
	R461	VE-30012510	SMD RES.	1/16W 100R J
	R463	VE-30012692	SMD RES.	1/16W 4.7K J
	R464	VE-30012696	SMD RES.	1/16W 47K J
	R469	VE-30000670	CF RES.	1/4W 330K J
	R470	VE-30012683	SMD RES.	1/16W 330K J
	R474	VE-30012692	SMD RES.	1/16W 4.7K J
	R475	VE-30012510	SMD RES.	1/16W 100R J
	R476	VE-30012707	SMD RES.	1/16W 680R J
	R477	VE-30014022	SMD RES.	1/16W 47R J
	R502	VE-30012695	SMD RES.	1/16W 470R J
	R503	VE-30012707	SMD RES.	1/16W 680R J
	R504	VE-30012679	SMD RES.	1/16W 3.9K J
	R505	VE-30012673	SMD RES.	1/16W 270R J
	R506	VE-30012506	SMD RES.	1/16W 1.5K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R507	VE-30012657	SMD RES.	1/16W 1K J
	R508	VE-30000706	CF RES.	1/4W 47R J
	R509	VE-30012641	SMD RES.	1/16W 10K J
	R510	VE-30000622	CF RES.	1/4W 270R J
	R511	VE-30012657	SMD RES.	1/16W 1K J
	R512	VE-30012504	SMD RES.	1/16W 1.2K J
	R513	VE-30000459	CF RES.	1/4W 100R J
	R514	VE-30000459	CF RES.	1/4W 100R J
	R515	VE-30012692	SMD RES.	1/16W 4.7K J
	R516	VE-30012692	SMD RES.	1/16W 4.7K J
	R517	VE-30012692	SMD RES.	1/16W 4.7K J
	R518	VE-30000471	CF RES.	1/4W 10K J
	R519	VE-30012698	SMD RES.	1/16W 5.6K J
	R525	VE-30000583	CF RES.	1/4W 220R J
	R526	VE-30012641	SMD RES.	1/16W 10K J
	R527	VE-30000718	CF RES.	1/4W 4.7K J
	R528	VE-30012698	SMD RES.	1/16W 5.6K J
	R530	VE-30012698	SMD RES.	1/16W 5.6K J
	R531	VE-30012692	SMD RES.	1/16W 4.7K J
	R532	VE-30012659	SMD RES.	1/16W 2.2K J
	R533	VE-30012644	SMD RES.	1/16W 12K J
	R534	VE-30000526	CF RES.	1/4W 1.5K J
	R535	VE-30000718	CF RES.	1/4W 4.7K J
	R536	VE-30000471	CF RES.	1/4W 10K J
	R537	VE-30012641	SMD RES.	1/16W 10K J
	R538	VE-30012698	SMD RES.	1/16W 5.6K J
	R539	VE-30012659	SMD RES.	1/16W 2.2K J
	R540	VE-30012644	SMD RES.	1/16W 12K J
	R545	VE-30012644	SMD RES.	1/16W 12K J
	R546	VE-30000560	CF RES.	1/4W 1.8K J
	R547	VE-30012659	SMD RES.	1/16W 2.2K J
	R548	VE-30012641	SMD RES.	1/16W 10K J
	R555	VE-30012659	SMD RES.	1/16W 2.2K J
	R556	VE-30012657	SMD RES.	1/16W 1K J
	R559	VE-30000470	CF RES.	1/2W 10K J
	R560	VE-30012669	SMD RES.	1/16W 22K J
	R561	VE-30012692	SMD RES.	1/16W 4.7K J
	R562	VE-30000471	CF RES.	1/4W 10K J
	R564	VE-30012641	SMD RES.	1/16W 10K J
	R601	VE-30000477	CF RES.	1/4W 100K J
	R602	VE-30000536	CF RES.	1/4W 150K J
	R605	VE-30000504	CF RES.	1/4W 120K J
	R612	VE-30012692	SMD RES.	1/16W 4.7K J
	R613	VE-30012692	SMD RES.	1/16W 4.7K J
	R618	VE-30012662	SMD RES.	1/16W 2.7K J
	R619	VE-30012641	SMD RES.	1/16W 10K J
	R623	VE-30000607	CF RES.	1/4W 2.2R J
	R624	VE-30001161	MO RES.	2W 39R J
	R625	VE-30000900	MF RES.	1/4W 1.8K J
	R627	VE-30000910	MF RES.	1/2W 1.8R G
	R628	VE-30000650	CF RES.	1/4W 33R J
	R630	VE-30000828	CF RES.	1/4W 8.2M J
	R631	VE-30000885	MF RES.	1/4W 1.5K J
	R633	VE-30000706	CF RES.	1/4W 47R J
	R634	VE-30012641	SMD RES.	1/16W 10K J
	R637	VE-30000621	CF RES.	1/2W 270R J
	R638	VE-30000612	CF RES.	1/4W 2.4K J
	R639	VE-30000718	CF RES.	1/4W 4.7K J
	R640	VE-30012662	SMD RES.	1/16W 2.7K J
	R641	VE-30012649	SMD RES.	1/16W 150R J
	R645	VE-30001125	MO RES.	2W 2.2K J
	R646	VE-30000500	CF RES.	1/4W 12K J
	R647	VE-30000466	CF RES.	1/4W 1K J
⚠	R648	VE-30001254	FUSE RES.	1/2W 0.68R J
	R649	VE-30000775	CF RES.	1/4W 6.8K J
	R650	VE-30000744	CF RES.	1/4W 560R J
	R654	VE-30000705	CF RES.	1/2W 47R J
	R655	VE-30000705	CF RES.	1/2W 47R J
	R657	VE-30012656	SMD RES.	1/16W 18K J
	R658	VE-30001161	MO RES.	2W 39R J
	R659	VE-30001123	MO RES.	2W 220R J
	R660	VE-30012669	SMD RES.	1/16W 22K J
	R661	VE-30012674	SMD RES.	1/16W 27K J
	R662	VE-30000712	CF RES.	1/4W 470R J
	R663	VE-30000459	CF RES.	1/4W 100R J
	R665	VE-30012708	SMD RES.	1/16W 68K J
	R701	VE-30000459	CF RES.	1/4W 100R J
	R703	VE-30000459	CF RES.	1/4W 100R J
	R705	VE-30000459	CF RES.	1/4W 100R J

[AV-21BT8ENS / AV-21BT8ENB]

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R715	VE-30012695	SMD RES.	1/16W 470R J
	R717	VE-30012695	SMD RES.	1/16W 470R J
	R719	VE-30012657	SMD RES.	1/16W 1K J
	R721	VE-30000459	CF RES.	1/4W 100R J
	R722	VE-30000459	CF RES.	1/4W 100R J
	R723	VE-30012510	SMD RES.	1/16W 100R J
	R724	VE-30012510	SMD RES.	1/16W 100R J
	R725	VE-30012657	SMD RES.	1/16W 1K J
	R726	VE-30012657	SMD RES.	1/16W 1K J
	R727	VE-30012657	SMD RES.	1/16W 1K J
	R728	VE-30012657	SMD RES.	1/16W 1K J
	R729	VE-30012657	SMD RES.	1/16W 1K J
	R730	VE-30012657	SMD RES.	1/16W 1K J
	R731	VE-30012657	SMD RES.	1/16W 1K J
	R801	VE-30000466	CF RES.	1/4W 1K J
	R803	VE-30012659	SMD RES.	1/16W 2.2K J
	R804	VE-30000477	CF RES.	1/4W 100K J
	R805	VE-30000452	CF RES.	1/4W 10R J
	R806	VE-30007199	MF RES.	1/4W 4.3K F
	R807	VE-30001130	MO RES.	1/2W 0.22R J
	R809	VE-30007784	MO RES.	5W 33K J(RADIAL)
⚠	R810	VE-30001257	MG RES.	1/2W 4.7M J
	R811	VE-30000594	CF RES.	1/4W 22K J
	R813	VE-30000718	CF RES.	1/4W 4.7K J
	R814	VE-30012662	SMD RES.	1/16W 2.7K J
	R815	VE-30000452	CF RES.	1/4W 10R J
	R817	VE-30001037	MF RES.	1/4W 99K F
	R818	VE-30000925	MF RES.	1/4W 2.2K F
	R819	VE-30000810	CF RES.	1/4W 820R J
	R821	VE-30000470	CF RES.	1/2W 10K J
	R828	VE-30001260	WW RES.	5W 2.2R J RAD.
	R829	VE-30000718	CF RES.	1/4W 4.7K J
	R830	VE-30012657	SMD RES.	1/16W 1K J
	R831	VE-30012669	SMD RES.	1/16W 22K J
	R834	VE-30012657	SMD RES.	1/16W 1K J
	R835	VE-30016802	WW RES.	5W 5.6R J RAD.
	R900	VE-30000459	CF RES.	1/4W 100R J
	R901	VE-30000459	CF RES.	1/4W 100R J
	R902	VE-30000459	CF RES.	1/4W 100R J
	R903	VE-30000886	MF RES.	1/4W 1.5K F
	R904	VE-30000886	MF RES.	1/4W 1.5K F
	R905	VE-30000886	MF RES.	1/4W 1.5K F
	R906	VE-30000525	CF RES.	1/2W 1.5K J
⚠	R919	VE-30001207	FUSE RES.	1/4W 10R J

CAPACITOR

	C141	VE-30000384	EL CAP.	2.2UF 50V M
	C142	VE-30000384	EL CAP.	2.2UF 50V M
	C143	VE-30012589	SMD CAP.	4.7NF 50V K
	C144	VE-30012589	SMD CAP.	4.7NF 50V K
	C145	VE-30012589	SMD CAP.	4.7NF 50V K
	C146	VE-30012589	SMD CAP.	4.7NF 50V K
	C147	VE-30012589	SMD CAP.	4.7NF 50V K
	C148	VE-30012589	SMD CAP.	4.7NF 50V K
	C149	VE-30012589	SMD CAP.	4.7NF 50V K
	C150	VE-30012589	SMD CAP.	4.7NF 50V K
	C155	VE-30012560	SMD CAP.	100PF 50V J
	C157	VE-30012560	SMD CAP.	100PF 50V J
	C159	VE-30012560	SMD CAP.	100PF 50V J
	C160	VE-30000387	EL CAP.	33UF 50V M
	C161	VE-30000362	EL CAP.	1UF 50V M
	C162	VE-30000362	EL CAP.	1UF 50V M
	C201	VE-30000400	EL CAP.	47UF 50V M
	C205	VE-30000371	EL CAP.	22UF 50V M
	C206	VE-30012610	SMD CAP.	10NF 50V J
	C207	VE-30012610	SMD CAP.	10NF 50V J
	C300	VE-30000400	EL CAP.	47UF 50V M
	C302	VE-30000092	MKT CAP.	220NF 63V J
	C305	VE-30000092	MKT CAP.	220NF 63V J
	C404	VE-30000225	CER CAP.	220PF 50V J SL
	C408	VE-30012586	SMD CAP.	22NF 50V K
	C409	VE-30000345	EL CAP.	10UF 50V M
	C410	VE-30000384	EL CAP.	2.2UF 50V M
	C411	VE-30000345	EL CAP.	10UF 50V M
	C412	VE-30012586	SMD CAP.	22NF 50V K
	C413	VE-30000362	EL CAP.	1UF 50V M
	C414	VE-30012585	SMD CAP.	2.2NF 50V K R
	C415	VE-30012581	SMD CAP.	1NF 50V K R
	C416	VE-30000362	EL CAP.	1UF 50V M
	C417	VE-30000362	EL CAP.	1UF 50V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C418	VE-30012586	SMD CAP.	22NF 50V K
	C419	VE-30000413	EL CAP.	4.7UF 50V M
	C420	VE-30000100	MKT CAP.	330NF 63V J
	C422	VE-30000400	EL CAP.	47UF 50V M
	C423	VE-30000400	EL CAP.	47UF 50V M
	C424	VE-30000345	EL CAP.	10UF 50V M
	C425	VE-30012586	SMD CAP.	22NF 50V K
	C426	VE-30016654	SMD CAP.	100NF 16V K R
	C427	VE-30016654	SMD CAP.	100NF 16V K R
	C429	VE-30012589	SMD CAP.	4.7NF 50V K
	C431	VE-30000362	EL CAP.	1UF 50V M
	C432	VE-30012586	SMD CAP.	22NF 50V K
	C433	VE-30000345	EL CAP.	10UF 50V M
	C434	VE-30016654	SMD CAP.	100NF 16V K R
	C435	VE-30016654	SMD CAP.	100NF 16V K R
	C436	VE-30000384	EL CAP.	2.2UF 50V M
	C437	VE-30016654	SMD CAP.	100NF 16V K R
	C438	VE-30016654	SMD CAP.	100NF 16V K R
	C439	VE-30016654	SMD CAP.	100NF 16V K R
	C440	VE-30000074	MKT CAP.	100NF 63V J
	C441	VE-30012582	SMD CAP.	10NF 50V K R
	C442	VE-30000384	EL CAP.	2.2UF 50V M
	C443	VE-30000362	EL CAP.	1UF 50V M
	C444	VE-30000384	EL CAP.	2.2UF 50V M
	C448	VE-30012586	SMD CAP.	22NF 50V K
	C449	VE-30012567	SMD CAP.	220PF 50V J
	C451	VE-30012581	SMD CAP.	1NF 50V K R
	C452	VE-30012581	SMD CAP.	1NF 50V K R
	C454	VE-30012573	SMD CAP.	47PF 50V J
	C455	VE-30012573	SMD CAP.	47PF 50V J
	C456	VE-30012573	SMD CAP.	47PF 50V J
	C459	VE-30012575	SMD CAP.	4.7PF 50V C CH
	C460	VE-30000345	EL CAP.	10UF 50V M
	C502	VE-30000396	EL CAP.	47UF 16V M
	C504	VE-30012586	SMD CAP.	22NF 50V K
	C505	VE-30012589	SMD CAP.	4.7NF 50V K
	C510	VE-30012586	SMD CAP.	22NF 50V K
	C511	VE-30012566	SMD CAP.	22PF 50V J
	C513	VE-30000371	EL CAP.	22UF 50V M
	C514	VE-30012586	SMD CAP.	22NF 50V K
	C515	VE-30012579	SMD CAP.	82PF 50V J
	C517	VE-30012586	SMD CAP.	22NF 50V K
	C518	VE-30012586	SMD CAP.	22NF 50V K
	C519	VE-30000352	EL CAP.	100UF 16V M
	C520	VE-30012560	SMD CAP.	100PF 50V J
	C521	VE-30012562	SMD CAP.	15PF 50V J
	C522	VE-30012562	SMD CAP.	15PF 50V J
	C523	VE-30012585	SMD CAP.	2.2NF 50V K R
	C525	VE-30012566	SMD CAP.	22PF 50V J
	C526	VE-30012586	SMD CAP.	22NF 50V K
	C530	VE-30012589	SMD CAP.	4.7NF 50V K
	C531	VE-30000384	EL CAP.	2.2UF 50V M
	C532	VE-30012586	SMD CAP.	22NF 50V K
	C536	VE-30000074	MKT CAP.	100NF 63V J
	C541	VE-30000109	MKT CAP.	470NF 63V J
	C542	VE-30000205	CER CAP.	150PF 50V J SL
	C543	VE-30000205	CER CAP.	150PF 50V J SL
	C545	VE-30012607	SMD CAP.	150PF 50V J
	C603	VE-30000384	EL CAP.	2.2UF 50V M
	C604	VE-30000345	EL CAP.	10UF 50V M
	C608	VE-30000107	MKT CAP.	47NF 250V J
	C610	VE-30000355	EL CAP.	100UF 50V M
	C611	VE-30000092	MKT CAP.	220NF 63V J
	C613	VE-30016085	EL CAP.	10UF 63V 105°
	C615	VE-30000359	EL CAP.	1000UF 16V M
	C616	VE-30000352	EL CAP.	100UF 16V M
⚠	C618	VE-30007100	MKP CAP.	10NF 1600V %3.5
	C619	VE-30000131	MKP CAP.	100NF 250V J
	C623	VE-30000404	EL CAP.	47UF 160V M (HR)
	C624	VE-30000350	EL CAP.	10UF 250V M
	C627	VE-30000154	MKP CAP.	390NF 250V J
	C628	VE-30018380	EL CAP.	3.3UF 160V M (105°)
	C631	VE-30000410	EL CAP.	470UF 50V M
	C632	VE-30000100	MKT CAP.	330NF 63V J
	C633	VE-30016085	EL CAP.	10UF 63V 105°
	C634	VE-30000409	EL CAP.	470UF 25V M
	C635	VE-30000100	MKT CAP.	330NF 63V J
	C636	VE-30000387	EL CAP.	33UF 50V M
	C638	VE-30012581	SMD CAP.	1NF 50V K R
	C639	VE-30000433	CER CAP.	1NF 1KV M B
	C641	VE-30000345	EL CAP.	10UF 50V M
	C642	VE-30012609	SMD CAP.	68NF 50V K

[AV-21BT8ENS / AV-21BT8ENB]

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C643	VE-30000116	MKT CAP.	68NF 63V J
	C644	VE-30000362	EL CAP.	1UF 50V M
	C645	VE-30000352	EL CAP.	100UF 16V M
	C700	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C701	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C702	VE-30012573	SMD CAP.	47PF 50V J
	C703	VE-30012573	SMD CAP.	47PF 50V J
	C704	VE-30012576	SMD CAP.	56PF 50V J CH
	C705	VE-30000345	EL CAP.	10UF 50V M
	C706	VE-30000345	EL CAP.	10UF 50V M
	C707	VE-30012573	SMD CAP.	47PF 50V J
	C708	VE-30012586	SMD CAP.	22NF 50V K
	C710	VE-30012573	SMD CAP.	47PF 50V J
	C712	VE-30000345	EL CAP.	10UF 50V M
	C713	VE-30016654	SMD CAP.	100NF 16V K R
	C714	VE-30016654	SMD CAP.	100NF 16V K R
	C716	VE-30016654	SMD CAP.	100NF 16V K R
	C717	VE-30016654	SMD CAP.	100NF 16V K R
	C718	VE-30016654	SMD CAP.	100NF 16V K R
	C719	VE-30012586	SMD CAP.	22NF 50V K
	C720	VE-30000345	EL CAP.	10UF 50V M
	C721	VE-30016654	SMD CAP.	100NF 16V K R
	C723	VE-30016654	SMD CAP.	100NF 16V K R
	C724	VE-30000345	EL CAP.	10UF 50V M
	C729	VE-30016654	SMD CAP.	100NF 16V K R
	C730	VE-30000393	EL CAP.	3.3UF 50V M
	C733	VE-30000345	EL CAP.	10UF 50V M
	C734	VE-30000345	EL CAP.	10UF 50V M
	C735	VE-30012586	SMD CAP.	22NF 50V K
	C736	VE-30000345	EL CAP.	10UF 50V M
	C737	VE-30000109	MKT CAP.	470NF 63V J
	C738	VE-30000109	MKT CAP.	470NF 63V J
	C739	VE-30000109	MKT CAP.	470NF 63V J
	C740	VE-30000109	MKT CAP.	470NF 63V J
	C741	VE-30012585	SMD CAP.	2.2NF 50V K R
	C742	VE-30012585	SMD CAP.	2.2NF 50V K R
	C748	VE-30012560	SMD CAP.	100PF 50V J
⚠	C801	VE-30000094	MKT CAP.	220NF 275V M AC
⚠	C802	VE-30000094	MKT CAP.	220NF 275V M AC
⚠	C803	VE-30000433	CER CAP.	1NF 1KV M B
⚠	C804	VE-30000433	CER CAP.	1NF 1KV M B
	C808	VE-30000295	CER CAP.	100NF 50V Z F
	C809	VE-30000418	EL CAP.	100UF 400V M
	C810	VE-30000387	EL CAP.	33UF 50V M
	C811	VE-30000161	MKP CAP.	47NF 630V J
	C812	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C813	VE-30000295	CER CAP.	100NF 50V Z F
⚠	C816	VE-30000447	CER CAP.	4.7NF 4KV M E
	C817	VE-30000198	CER CAP.	120PF 500V J SL
	C818	VE-30016654	SMD CAP.	100NF 16V K R
	C819	VE-30012609	SMD CAP.	68NF 50V K
	C822	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C824	VE-30000433	CER CAP.	1NF 1KV M B
	C826	VE-30000404	EL CAP.	47UF 160V M (HR)
	C827	VE-30000411	EL CAP.	470UF 16V M
	C828	VE-30000295	CER CAP.	100NF 50V Z F
	C829	VE-30000407	EL CAP.	470UF 16V M
	C830	VE-30000382	EL CAP.	220UF 16V M
	C831	VE-30000431	CER CAP.	100PF 1KV M
	C832	VE-30000295	CER CAP.	100NF 50V Z F
	C833	VE-30000407	EL CAP.	470UF 16V M
	C834	VE-30000295	CER CAP.	100NF 50V Z F
	C836	VE-30000431	CER CAP.	100PF 1KV M
	C838	VE-30000352	EL CAP.	100UF 16V M
	C839	VE-30000352	EL CAP.	100UF 16V M
	C840	VE-30000352	EL CAP.	100UF 16V M
	C843	VE-30000431	CER CAP.	100PF 1KV M
	C848	VE-30000352	EL CAP.	100UF 16V M
	C849	VE-30000352	EL CAP.	100UF 16V M
	C850	VE-30000352	EL CAP.	100UF 16V M
	C855	VE-30000407	EL CAP.	470UF 16V M
	C856	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C858	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C907	VE-30000434	CER CAP.	1NF 2KV K B
	C908	VE-30000415	EL CAP.	4.7UF 250V M
	C912	VE-30000075	MKT CAP.	100NF 250V K (DC)

TRANSF

⚠	Symbol No.	Part No.	Part Name
⚠	TR601	VE-30017788	FBT TRF
⚠	TR802	VE-30013683	SMPS TRF

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L101	VE-30001971	FERRITE BEAT	
	L102	VE-30001971	FERRITE BEAT	
	L103	VE-30001971	FERRITE BEAT	
	L106	VE-30001971	FERRITE BEAT	
	L107	VE-30001971	FERRITE BEAT	
	L108	VE-30001971	FERRITE BEAT	
	L109	VE-30001971	FERRITE BEAT	
	L110	VE-30001971	FERRITE BEAT	
	L111	VE-30001971	FERRITE BEAT	
	L112	VE-30001971	FERRITE BEAT	
	L113	VE-30001971	FERRITE BEAT	
	L114	VE-30001971	FERRITE BEAT	
	L115	VE-30001971	FERRITE BEAT	
	L201	VE-30001979	FIXED COIL	1UH
	L210	VE-30001971	FERRITE BEAT	
	L211	VE-30001971	FERRITE BEAT	
	L401	VE-30001971	FERRITE BEAT	
	L402	VE-30001992	FIXED COIL	10UH
	L403	VE-30001971	FERRITE BEAT	
	L404	VE-30001990	FIXED COIL	6.8UH
	L405	VE-30014048	ADJ. COIL	44MHZ
	L406	VE-30001971	FERRITE BEAT	
	L601	VE-30001990	FIXED COIL	6.8UH
	L603	VE-30002149	LINEARITY COIL	50UH
	L604	VE-30001971	FERRITE BEAT	
	L700	VE-30001971	FERRITE BEAT	
	L701	VE-30001971	FERRITE BEAT	
	L702	VE-30001996	FIXED COIL	22UH
	L703	VE-30001979	FIXED COIL	1UH
	L704	VE-30001979	FIXED COIL	1UH
	L802	VE-30001971	FERRITE BEAT	
	L803	VE-30001984	FIXED COIL	2.2UH
	L805	VE-30001971	FERRITE BEAT	
	L806	VE-30001971	FERRITE BEAT	
	L807	VE-30001992	FIXED COIL	10UH
	L809	VE-30001971	FERRITE BEAT	
	L810	VE-30001992	FIXED COIL	10UH
	L900	VE-30002171	PEAKING COIL	22UH K

DIODE

Symbol No.	Part No.	Part Name
D101	VE-30007760	ZENER DIODE
D102	VE-30007760	ZENER DIODE
D103	VE-30007760	ZENER DIODE
D104	VE-30007762	ZENER DIODE
D106	VE-30001377	ZENER DIODE
D300	VE-30001285	DIODE
D301	VE-30001285	DIODE
D405	VE-30007763	ZENER DIODE
D407	VE-30001284	DIODE
D408	VE-30001285	DIODE
D409	VE-30007760	ZENER DIODE
D410	VE-30007760	ZENER DIODE
D411	VE-30007760	ZENER DIODE
D501	VE-30001285	DIODE
D505	VE-30001285	DIODE
D506	VE-30001284	DIODE
D509	VE-30001279	LED RED/GREEN
D512	VE-30001285	DIODE
D513	VE-30001339	ZENER DIODE
D602	VE-30001329	DIODE
D603	VE-30001285	DIODE
D608	VE-30001318	DIODE
D609	VE-30001318	DIODE
D610	VE-30001318	DIODE
D611	VE-30001285	DIODE
D614	VE-30001318	DIODE
D615	VE-30001285	DIODE
D616	VE-30009699	ZENER DIODE
D619	VE-30009699	ZENER DIODE
D700	VE-30001285	DIODE
D701	VE-30001369	ZENER DIODE
D800	VE-30001318	DIODE
D801	VE-30001347	ZENER DIODE
D802	VE-30001318	DIODE
D803	VE-30001315	DIODE
D804	VE-30001285	DIODE
D805	VE-30001315	DIODE
D806	VE-30001315	DIODE
D808	VE-30007681	DIODE
D809	VE-30001329	DIODE

[AV-21BT8ENS / AV-21BT8ENB]

⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
	D810	VE-30009366	DIODE	
⚠	D811	VE-30001329	DIODE	
	D812	VE-30001285	DIODE	
⚠	D813	VE-30001329	DIODE	
⚠	D837	VE-30001329	DIODE	
⚠	D838	VE-30001329	DIODE	
	D890	VE-30001329	DIODE	
	D900	VE-30001318	DIODE	
	D901	VE-30001318	DIODE	
	D902	VE-30001318	DIODE	
	D903	VE-30001344	ZENER DIODE	
	D889	VE-30001384	TR	
	TRANSISTOR			
	Q104	VE-30001457	TR	
	Q106	VE-30001457	TR	
	Q141	VE-30001457	TR	
	Q142	VE-30001457	TR	
	Q301	VE-30001458	TR	
	Q302	VE-30001457	TR	
	Q406	VE-30001457	TR	
	Q503	VE-30001457	TR	
	Q504	VE-30001458	TR	
	Q601	VE-30013656	POWER TR	
⚠	Q603	VE-30001448	TR	H.OUT
	Q604	VE-30001457	TR	
	Q606	VE-30001457	TR	
	Q700	VE-30001458	TR	
	Q801	VE-30001385	TR	
	Q802	VE-30001457	TR	
	Q804	VE-30001454	TR	
	IC			
	IC118	VE-30001506	IC	
	IC301	VE-30011824	IC	
	IC403	VE-30014521	IC	
	IC500	VE-20099597	IC	(SERVICE)
	IC501	VE-20099539	IC	(MICOM)
	IC502	VE-30001670	PREAMPLIFIER	
⚠	IC600	VE-30015306	IC	
	IC700	VE-30013658	IC	
	IC800	VE-30011968	IC	
⚠	IC801	VE-30015087	IC	
	IC803	VE-30001500	IC	
	IC804	VE-30001622	IC	
	IC806	VE-30014346	IC	
⚠	IC900	VE-30015857	IC	
	OTHERS			
⚠	F801	VE-30001731	FUSE	
⚠	PL903	VE-30001855	CRT SOCKET	
	SG900	VE-30000428	SPARK GAP	300V
	SG901	VE-30000428	SPARK GAP	300V
	SG902	VE-30000428	SPARK GAP	300V
	SW501	VE-30002178	TACK SWITCH	
	SW502	VE-30002178	TACK SWITCH	
	SW503	VE-30002178	TACK SWITCH	
	SW504	VE-30002178	TACK SWITCH	
	SW505	VE-30002178	TACK SWITCH	
⚠	SW801	VE-30017848	SWITCH ON/OFF	2.5A/100A
⚠	TH800	VE-30001270	PTC	9 OHM
⚠	TR801	VE-30002100	LINE FILTER	
	TU201	VE-30009637	TUNER	
	X401	VE-30001749	XTAL	
	X402	VE-30015592	XTAL	
	X403	VE-30000074	MKT CAP.	100NF 63V J
	X501	VE-30002851	XTAL	
	X700	VE-30001756	XTAL	
	Z401	VE-30001705	SAW FILTER	
	Z402	VE-30015591	SAW FILTER	

FRONT AV P.W. BOARD ASS'Y (VE-20076582)

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	PL1203	VE-30015338	RCA JACK	
	PL1204	VE-30015339	RCA JACK	
	PL1205	VE-30015337	RCA JACK	

HEADPHONE P.W. BOARD ASS'Y (VE-20100697)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R113	VE-30000712	CF RES.	1/4W 470R J
	R114	VE-30000712	CF RES.	1/4W 470R J
	R115	VE-30000744	CF RES.	1/4W 560R J
	R116	VE-30000744	CF RES.	1/4W 560R J
	COIL			
	L103	VE-30001996	FIXED COIL	22UH Q40 K
	L104	VE-30001996	FIXED COIL	22UH Q40 K

PRINTED WIRING BOARD PARTS LIST

[AV-21BT8EPS / AV-21BT8EPB / AV-21BT80EP]

MAIN P.W. BOARD ASS'Y (VE-20101105)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R105	VE-30000792	CF RES.	1/4W 75R J
	R109	VE-30012713	SMD RES.	1/16W 75R J
	R110	VE-30012713	SMD RES.	1/16W 75R J
	R113	VE-30012713	SMD RES.	1/16W 75R J
	R114	VE-30012713	SMD RES.	1/16W 75R J
	R115	VE-30012713	SMD RES.	1/16W 75R J
	R116	VE-30012987	SMD RES.	1/16W 56R J
	R117	VE-30012713	SMD RES.	1/16W 75R J
	R118	VE-30000792	CF RES.	1/4W 75R J
	R122	VE-30000792	CF RES.	1/4W 75R J
	R123	VE-30000792	CF RES.	1/4W 75R J
	R126	VE-30012695	SMD RES.	1/16W 470R J
	R127	VE-30000459	CF RES.	1/4W 100R J
	R129	VE-30012713	SMD RES.	1/16W 75R J
	R135	VE-30012657	SMD RES.	1/16W 1K J
	R139	VE-30012713	SMD RES.	1/16W 75R J
	R140	VE-30012987	SMD RES.	1/16W 56R J
	R141	VE-30012695	SMD RES.	1/16W 470R J
	R142	VE-30000459	CF RES.	1/4W 100R J
	R145	VE-30012713	SMD RES.	1/16W 75R J
	R149	VE-30000752	CF RES.	1/4W 56K J
	R151	VE-30012696	SMD RES.	1/16W 47K J
	R152	VE-30000752	CF RES.	1/4W 56K J
	R153	VE-30012657	SMD RES.	1/16W 1K J
	R154	VE-30000723	CF RES.	1/4W 47K J
	R155	VE-30012649	SMD RES.	1/16W 150R J
	R201	VE-30012674	SMD RES.	1/16W 27K J
	R202	VE-30012692	SMD RES.	1/16W 4.7K J
	R204	VE-30000459	CF RES.	1/4W 100R J
	R206	VE-30000459	CF RES.	1/4W 100R J
	R301	VE-30000471	CF RES.	1/4W 10K J
	R302	VE-30000471	CF RES.	1/4W 10K J
	R303	VE-30012641	SMD RES.	1/16W 10K J
	R305	VE-30012641	SMD RES.	1/16W 10K J
	R306	VE-30012509	SMD RES.	1/16W 100K J
	R407	VE-30000590	CF RES.	1/4W 2.2K J
	R410	VE-30000471	CF RES.	1/4W 10K J
	R412	VE-30012696	SMD RES.	1/16W 47K J
	R417	VE-30012510	SMD RES.	1/16W 100R J
	R418	VE-30012510	SMD RES.	1/16W 100R J
	R419	VE-30012649	SMD RES.	1/16W 150R J
	R420	VE-30000466	CF RES.	1/4W 1K J
	R421	VE-30012650	SMD RES.	1/16W 15K J
	R422	VE-30012659	SMD RES.	1/16W 2.2K J
	R423	VE-30012712	SMD RES.	1/16W 8.2K J
	R424	VE-30000712	CF RES.	1/4W 470R J
	R425	VE-30000583	CF RES.	1/4W 220R J
	R426	VE-30012659	SMD RES.	1/16W 2.2K J
	R427	VE-30012674	SMD RES.	1/16W 27K J
	R428	VE-30000792	CF RES.	1/4W 75R J
	R431	VE-30012674	SMD RES.	1/16W 27K J
	R432	VE-30012657	SMD RES.	1/16W 1K J
	R433	VE-30012667	SMD RES.	1/16W 220K J
	R437	VE-30000466	CF RES.	1/4W 1K J
	R438	VE-30000466	CF RES.	1/4W 1K J
	R439	VE-30012657	SMD RES.	1/16W 1K J
	R440	VE-30012714	SMD RES.	1/16W 820R J
	R441	VE-30012656	SMD RES.	1/16W 18K J
	R442	VE-30000466	CF RES.	1/4W 1K J
	R446	VE-30012714	SMD RES.	1/16W 820R J
	R447	VE-30012714	SMD RES.	1/16W 820R J
	R448	VE-30012683	SMD RES.	1/16W 330K J
	R449	VE-30012662	SMD RES.	1/16W 2.7K J
	R450	VE-30000712	CF RES.	1/4W 470R J
	R455	VE-30012696	SMD RES.	1/16W 47K J
	R458	VE-30012662	SMD RES.	1/16W 2.7K J
	R459	VE-30012510	SMD RES.	1/16W 100R J
	R460	VE-30012510	SMD RES.	1/16W 100R J
	R461	VE-30012510	SMD RES.	1/16W 100R J
	R463	VE-30012692	SMD RES.	1/16W 4.7K J
	R464	VE-30012696	SMD RES.	1/16W 47K J
	R465	VE-30012692	SMD RES.	1/16W 4.7K J
	R467	VE-30012641	SMD RES.	1/16W 10K J
	R468	VE-30012641	SMD RES.	1/16W 10K J
	R469	VE-30000670	CF RES.	1/4W 330K J
	R470	VE-30012683	SMD RES.	1/16W 330K J
	R474	VE-30012692	SMD RES.	1/16W 4.7K J
	R475	VE-30012510	SMD RES.	1/16W 100R J
	R476	VE-30012707	SMD RES.	1/16W 680R J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R477	VE-30014022	SMD RES.	1/16W 47R J
	R502	VE-30012695	SMD RES.	1/16W 470R J
	R503	VE-30012707	SMD RES.	1/16W 680R J
	R504	VE-30012679	SMD RES.	1/16W 3.9K J
	R505	VE-30012673	SMD RES.	1/16W 270R J
	R506	VE-30012506	SMD RES.	1/16W 1.5K J
	R507	VE-30012657	SMD RES.	1/16W 1K J
	R508	VE-30000706	CF RES.	1/4W 47R J
	R509	VE-30012641	SMD RES.	1/16W 10K J
	R510	VE-30000622	CF RES.	1/4W 270R J
	R511	VE-30012657	SMD RES.	1/16W 1K J
	R512	VE-30012504	SMD RES.	1/16W 1.2K J
	R513	VE-30000459	CF RES.	1/4W 100R J
	R514	VE-30000459	CF RES.	1/4W 100R J
	R515	VE-30012692	SMD RES.	1/16W 4.7K J
	R516	VE-30012692	SMD RES.	1/16W 4.7K J
	R517	VE-30012692	SMD RES.	1/16W 4.7K J
	R518	VE-30000471	CF RES.	1/4W 10K J
	R519	VE-30012698	SMD RES.	1/16W 5.6K J
	R525	VE-30000583	CF RES.	1/4W 220R J
	R526	VE-30012641	SMD RES.	1/16W 10K J
	R527	VE-30000718	CF RES.	1/4W 4.7K J
	R528	VE-30012698	SMD RES.	1/16W 5.6K J
	R530	VE-30012698	SMD RES.	1/16W 5.6K J
	R531	VE-30012692	SMD RES.	1/16W 4.7K J
	R532	VE-30012659	SMD RES.	1/16W 2.2K J
	R533	VE-30012644	SMD RES.	1/16W 12K J
	R534	VE-30000526	CF RES.	1/4W 1.5K J
	R535	VE-30000718	CF RES.	1/4W 4.7K J
	R536	VE-30000471	CF RES.	1/4W 10K J
	R537	VE-30012641	SMD RES.	1/16W 10K J
	R538	VE-30012698	SMD RES.	1/16W 5.6K J
	R539	VE-30012659	SMD RES.	1/16W 2.2K J
	R540	VE-30012644	SMD RES.	1/16W 12K J
	R545	VE-30012644	SMD RES.	1/16W 12K J
	R546	VE-30000560	CF RES.	1/4W 1.8K J
	R547	VE-30012659	SMD RES.	1/16W 2.2K J
	R548	VE-30012641	SMD RES.	1/16W 10K J
	R552	VE-30012692	SMD RES.	1/16W 4.7K J
	R555	VE-30012659	SMD RES.	1/16W 2.2K J
	R556	VE-30012657	SMD RES.	1/16W 1K J
	R559	VE-30000470	CF RES.	1/2W 10K J
	R560	VE-30012669	SMD RES.	1/16W 22K J
	R561	VE-30012692	SMD RES.	1/16W 4.7K J
	R562	VE-30000471	CF RES.	1/4W 10K J
	R564	VE-30012641	SMD RES.	1/16W 10K J
	R601	VE-30000477	CF RES.	1/4W 100K J
	R602	VE-30000536	CF RES.	1/4W 150K J
	R605	VE-30000504	CF RES.	1/4W 120K J
	R612	VE-30012692	SMD RES.	1/16W 4.7K J
	R613	VE-30012692	SMD RES.	1/16W 4.7K J
	R618	VE-30012662	SMD RES.	1/16W 2.7K J
	R619	VE-30012641	SMD RES.	1/16W 10K J
	R623	VE-30000607	CF RES.	1/4W 2.2R J
	R624	VE-30001161	MO RES.	2W 39R J
	R625	VE-30000900	MF RES.	1/4W 1.8K J
	R627	VE-30000910	MF RES.	1/2W 1.8R G
	R628	VE-30000650	CF RES.	1/4W 33R J
	R630	VE-30000828	CF RES.	1/4W 8.2M J
	R631	VE-30000885	MF RES.	1/4W 1.5K J
	R633	VE-30000706	CF RES.	1/4W 47R J
	R634	VE-30012641	SMD RES.	1/16W 10K J
	R637	VE-30000621	CF RES.	1/2W 270R J
	R638	VE-30000612	CF RES.	1/4W 2.4K J
	R639	VE-30000718	CF RES.	1/4W 4.7K J
	R640	VE-30012662	SMD RES.	1/16W 2.7K J
	R641	VE-30012649	SMD RES.	1/16W 150R J
	R645	VE-30001125	MO RES.	2W 2.2K J
	R646	VE-30000500	CF RES.	1/4W 12K J
	R647	VE-30000466	CF RES.	1/4W 1K J
⚠	R648	VE-30001254	FUSE RES.	1/2W 0.68R J
	R649	VE-30000775	CF RES.	1/4W 6.8K J
	R650	VE-30000744	CF RES.	1/4W 560R J
	R654	VE-30000705	CF RES.	1/2W 47R J
	R655	VE-30000705	CF RES.	1/2W 47R J
	R657	VE-30012656	SMD RES.	1/16W 18K J
	R658	VE-30001161	MO RES.	2W 39R J
	R659	VE-30001123	MO RES.	2W 220R J
	R660	VE-30012669	SMD RES.	1/16W 22K J

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RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R661	VE-30012674	SMD RES.	1/16W 27K J
	R662	VE-30000712	CF RES.	1/4W 470R J
	R663	VE-30000459	CF RES.	1/4W 100R J
	R665	VE-30012708	SMD RES.	1/16W 68K J
	R701	VE-30000459	CF RES.	1/4W 100R J
	R703	VE-30000459	CF RES.	1/4W 100R J
	R705	VE-30000459	CF RES.	1/4W 100R J
	R715	VE-30012695	SMD RES.	1/16W 470R J
	R717	VE-30012695	SMD RES.	1/16W 470R J
	R719	VE-30012657	SMD RES.	1/16W 1K J
	R721	VE-30000459	CF RES.	1/4W 100R J
	R722	VE-30000459	CF RES.	1/4W 100R J
	R723	VE-30012510	SMD RES.	1/16W 100R J
	R724	VE-30012510	SMD RES.	1/16W 100R J
	R725	VE-30012657	SMD RES.	1/16W 1K J
	R726	VE-30012657	SMD RES.	1/16W 1K J
	R727	VE-30012657	SMD RES.	1/16W 1K J
	R728	VE-30012657	SMD RES.	1/16W 1K J
	R729	VE-30012657	SMD RES.	1/16W 1K J
	R730	VE-30012657	SMD RES.	1/16W 1K J
	R731	VE-30012657	SMD RES.	1/16W 1K J
	R801	VE-30000466	CF RES.	1/4W 1K J
	R803	VE-30012659	SMD RES.	1/16W 2.2K J
	R804	VE-30000477	CF RES.	1/4W 100K J
	R805	VE-30000452	CF RES.	1/4W 10R J
	R806	VE-30007199	MF RES.	1/4W 4.3K F
	R807	VE-30001130	MO RES.	1/2W 0.22R J
	R809	VE-30007784	MO RES.	5W 33K J(RADIAL)
⚠	R810	VE-30001257	MG RES.	1/2W 4.7M J
	R811	VE-30000594	CF RES.	1/4W 22K J
	R813	VE-30000718	CF RES.	1/4W 4.7K J
	R814	VE-30012662	SMD RES.	1/16W 2.7K J
	R815	VE-30000452	CF RES.	1/4W 10R J
	R817	VE-30001037	MF RES.	1/4W 99K F
	R818	VE-30000925	MF RES.	1/4W 2.2K F
	R819	VE-30000810	CF RES.	1/4W 820R J
	R821	VE-30000470	CF RES.	1/2W 10K J
	R828	VE-30001260	WW RES.	5W 2.2R J RAD.
	R829	VE-30000718	CF RES.	1/4W 4.7K J
	R830	VE-30012657	SMD RES.	1/16W 1K J
	R831	VE-30012669	SMD RES.	1/16W 22K J
	R834	VE-30012657	SMD RES.	1/16W 1K J
	R835	VE-30016802	WW RES.	5W 5.6R J RAD.
	R900	VE-30000459	CF RES.	1/4W 100R J
	R901	VE-30000459	CF RES.	1/4W 100R J
	R902	VE-30000459	CF RES.	1/4W 100R J
	R903	VE-30000886	MF RES.	1/4W 1.5K F
	R904	VE-30000886	MF RES.	1/4W 1.5K F
	R905	VE-30000886	MF RES.	1/4W 1.5K F
	R906	VE-30000525	CF RES.	1/2W 1.5K J
⚠	R919	VE-30001207	FUSE RES.	1/4W 10R J

CAPACITOR

	C141	VE-30000384	EL CAP.	2.2UF 50V M
	C142	VE-30000384	EL CAP.	2.2UF 50V M
	C143	VE-30012589	SMD CAP.	4.7NF 50V K
	C144	VE-30012589	SMD CAP.	4.7NF 50V K
	C145	VE-30012589	SMD CAP.	4.7NF 50V K
	C146	VE-30012589	SMD CAP.	4.7NF 50V K
	C147	VE-30012589	SMD CAP.	4.7NF 50V K
	C148	VE-30012589	SMD CAP.	4.7NF 50V K
	C149	VE-30012589	SMD CAP.	4.7NF 50V K
	C150	VE-30012589	SMD CAP.	4.7NF 50V K
	C155	VE-30012560	SMD CAP.	100PF 50V J
	C157	VE-30012560	SMD CAP.	100PF 50V J
	C159	VE-30012560	SMD CAP.	100PF 50V J
	C160	VE-30000387	EL CAP.	33UF 50V M
	C161	VE-30000362	EL CAP.	1UF 50V M
	C162	VE-30000362	EL CAP.	1UF 50V M
	C201	VE-30000400	EL CAP.	47UF 50V M
	C205	VE-30000371	EL CAP.	22UF 50V M
	C206	VE-30012610	SMD CAP.	10NF 50V J
	C207	VE-30012610	SMD CAP.	10NF 50V J
	C300	VE-30000400	EL CAP.	47UF 50V M
	C302	VE-30000092	MKT CAP.	220NF 63V J
	C305	VE-30000092	MKT CAP.	220NF 63V J
	C404	VE-30000225	CER CAP.	220PF 50V J SL
	C408	VE-30012586	SMD CAP.	22NF 50V K
	C409	VE-30000345	EL CAP.	10UF 50V M
	C410	VE-30000384	EL CAP.	2.2UF 50V M
	C411	VE-30000345	EL CAP.	10UF 50V M
	C412	VE-30012586	SMD CAP.	22NF 50V K

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C413	VE-30000362	EL CAP.	1UF 50V M
	C414	VE-30012585	SMD CAP.	2.2NF 50V K R
	C415	VE-30012581	SMD CAP.	1NF 50V K R
	C416	VE-30000362	EL CAP.	1UF 50V M
	C417	VE-30000362	EL CAP.	1UF 50V M
	C418	VE-30012586	SMD CAP.	22NF 50V K
	C419	VE-30000413	EL CAP.	4.7UF 50V M
	C420	VE-30000100	MKT CAP.	330NF 63V J
	C422	VE-30000400	EL CAP.	47UF 50V M
	C423	VE-30000400	EL CAP.	47UF 50V M
	C424	VE-30000345	EL CAP.	10UF 50V M
	C425	VE-30012586	SMD CAP.	22NF 50V K
	C426	VE-30016654	SMD CAP.	100NF 16V K R
	C427	VE-30016654	SMD CAP.	100NF 16V K R
	C429	VE-30012589	SMD CAP.	4.7NF 50V K
	C431	VE-30000362	EL CAP.	1UF 50V M
	C432	VE-30012586	SMD CAP.	22NF 50V K
	C433	VE-30000345	EL CAP.	10UF 50V M
	C434	VE-30016654	SMD CAP.	100NF 16V K R
	C435	VE-30016654	SMD CAP.	100NF 16V K R
	C436	VE-30000384	EL CAP.	2.2UF 50V M
	C437	VE-30016654	SMD CAP.	100NF 16V K R
	C438	VE-30016654	SMD CAP.	100NF 16V K R
	C439	VE-30016654	SMD CAP.	100NF 16V K R
	C440	VE-30000074	MKT CAP.	100NF 63V J
	C441	VE-30012582	SMD CAP.	10NF 50V K R
	C442	VE-30000384	EL CAP.	2.2UF 50V M
	C443	VE-30000362	EL CAP.	1UF 50V M
	C444	VE-30000384	EL CAP.	2.2UF 50V M
	C446	VE-30000345	EL CAP.	10UF 50V M
	C448	VE-30012586	SMD CAP.	22NF 50V K
	C449	VE-30012567	SMD CAP.	220PF 50V J
	C454	VE-30012573	SMD CAP.	47PF 50V J
	C451	VE-30012589	SMD CAP.	4.7NF 50V K
	C452	VE-30012589	SMD CAP.	4.7NF 50V K
	C453	VE-30012581	SMD CAP.	1NF 50V K R
	C455	VE-30012573	SMD CAP.	47PF 50V J
	C456	VE-30012573	SMD CAP.	47PF 50V J
	C459	VE-30012575	SMD CAP.	4.7PF 50V C CH
	C460	VE-30000345	EL CAP.	10UF 50V M
	C502	VE-30000396	EL CAP.	47UF 16V M
	C504	VE-30012586	SMD CAP.	22NF 50V K
	C505	VE-30012589	SMD CAP.	4.7NF 50V K
	C510	VE-30012586	SMD CAP.	22NF 50V K
	C511	VE-30012566	SMD CAP.	22PF 50V J
	C513	VE-30000371	EL CAP.	22UF 50V M
	C514	VE-30012586	SMD CAP.	22NF 50V K
	C515	VE-30012579	SMD CAP.	82PF 50V J
	C517	VE-30012586	SMD CAP.	22NF 50V K
	C518	VE-30012586	SMD CAP.	22NF 50V K
	C519	VE-30000352	EL CAP.	100UF 16V M
	C520	VE-30012560	SMD CAP.	100PF 50V J
	C521	VE-30012562	SMD CAP.	15PF 50V J
	C522	VE-30012562	SMD CAP.	15PF 50V J
	C523	VE-30012585	SMD CAP.	2.2NF 50V K R
	C525	VE-30012566	SMD CAP.	22PF 50V J
	C526	VE-30012586	SMD CAP.	22NF 50V K
	C530	VE-30012589	SMD CAP.	4.7NF 50V K
	C531	VE-30000384	EL CAP.	2.2UF 50V M
	C532	VE-30012586	SMD CAP.	22NF 50V K
	C536	VE-30000074	MKT CAP.	100NF 63V J
	C541	VE-30000109	MKT CAP.	470NF 63V J
	C542	VE-30000205	CER CAP.	150PF 50V J SL
	C543	VE-30000205	CER CAP.	150PF 50V J SL
	C545	VE-30012607	SMD CAP.	150PF 50V J
	C603	VE-30000384	EL CAP.	2.2UF 50V M
	C604	VE-30000345	EL CAP.	10UF 50V M
	C608	VE-30000107	MKT CAP.	47NF 250V J
	C610	VE-30000355	EL CAP.	100UF 50V M
	C611	VE-30000092	MKT CAP.	220NF 63V J
	C613	VE-30016085	EL CAP.	10UF 63V 105°
	C615	VE-30000359	EL CAP.	1000UF 16V M
	C616	VE-30000352	EL CAP.	100UF 16V M
⚠	C618	VE-30007100	MKP CAP.	10NF 1600V %3.5
	C619	VE-30000131	MKP CAP.	100NF 250V J
	C623	VE-30000404	EL CAP.	47UF 160V M (HR)
	C624	VE-30000350	EL CAP.	10UF 250V M
	C627	VE-30000154	MKP CAP.	390NF 250V J
	C628	VE-30018380	EL CAP.	3.3UF 160V M (105°)
	C631	VE-30000410	EL CAP.	470UF 50V M
	C632	VE-30000100	MKT CAP.	330NF 63V J
	C633	VE-30016085	EL CAP.	10UF 63V 105°
	C634	VE-30000409	EL CAP.	470UF 25V M

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CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C635	VE-30000100	MKT CAP.	330NF 63V J
	C636	VE-30000387	EL CAP.	33UF 50V M
	C638	VE-30012581	SMD CAP.	1NF 50V K R
	C639	VE-30000433	CER CAP.	1NF 1KV M B
	C641	VE-30000345	EL CAP.	10UF 50V M
	C642	VE-30012609	SMD CAP.	68NF 50V K
	C643	VE-30000116	MKT CAP.	68NF 63V J
	C644	VE-30000362	EL CAP.	1UF 50V M
	C645	VE-30000352	EL CAP.	100UF 16V M
	C700	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C701	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C702	VE-30012573	SMD CAP.	47PF 50V J
	C703	VE-30012573	SMD CAP.	47PF 50V J
	C704	VE-30012576	SMD CAP.	56PF 50V J CH
	C705	VE-30000345	EL CAP.	10UF 50V M
	C706	VE-30000345	EL CAP.	10UF 50V M
	C707	VE-30012573	SMD CAP.	47PF 50V J
	C708	VE-30012586	SMD CAP.	22NF 50V K
	C710	VE-30012573	SMD CAP.	47PF 50V J
	C712	VE-30000345	EL CAP.	10UF 50V M
	C713	VE-30016654	SMD CAP.	100NF 16V K R
	C714	VE-30016654	SMD CAP.	100NF 16V K R
	C716	VE-30016654	SMD CAP.	100NF 16V K R
	C717	VE-30016654	SMD CAP.	100NF 16V K R
	C718	VE-30016654	SMD CAP.	100NF 16V K R
	C719	VE-30012586	SMD CAP.	22NF 50V K
	C720	VE-30000345	EL CAP.	10UF 50V M
	C721	VE-30016654	SMD CAP.	100NF 16V K R
	C723	VE-30016654	SMD CAP.	100NF 16V K R
	C724	VE-30000345	EL CAP.	10UF 50V M
	C729	VE-30016654	SMD CAP.	100NF 16V K R
	C730	VE-30000393	EL CAP.	3.3UF 50V M
	C733	VE-30000345	EL CAP.	10UF 50V M
	C734	VE-30000345	EL CAP.	10UF 50V M
	C735	VE-30012586	SMD CAP.	22NF 50V K
	C736	VE-30000345	EL CAP.	10UF 50V M
	C737	VE-30000109	MKT CAP.	470NF 63V J
	C738	VE-30000109	MKT CAP.	470NF 63V J
	C739	VE-30000109	MKT CAP.	470NF 63V J
	C740	VE-30000109	MKT CAP.	470NF 63V J
	C741	VE-30012585	SMD CAP.	2.2NF 50V K R
	C742	VE-30012585	SMD CAP.	2.2NF 50V K R
	C748	VE-30012560	SMD CAP.	100PF 50V J
⚠	C801	VE-30000094	MKT CAP.	220NF 275V M AC
⚠	C802	VE-30000094	MKT CAP.	220NF 275V M AC
⚠	C803	VE-30000433	CER CAP.	1NF 1KV M B
⚠	C804	VE-30000433	CER CAP.	1NF 1KV M B
	C808	VE-30000295	CER CAP.	100NF 50V Z F
	C809	VE-30000418	EL CAP.	100UF 400V M
	C810	VE-30000387	EL CAP.	33UF 50V M
	C811	VE-30000161	MKP CAP.	47NF 630V J
	C812	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C813	VE-30000295	CER CAP.	100NF 50V Z F
⚠	C816	VE-30000447	CER CAP.	4.7NF 4KV M E
	C817	VE-30000198	CER CAP.	120PF 500V J SL
	C818	VE-30016654	SMD CAP.	100NF 16V K R
	C819	VE-30012609	SMD CAP.	68NF 50V K
	C822	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C824	VE-30000433	CER CAP.	1NF 1KV M B
	C826	VE-30000404	EL CAP.	47UF 160V M (HR)
	C827	VE-30000411	EL CAP.	470UF 16V M
	C828	VE-30000295	CER CAP.	100NF 50V Z F
	C829	VE-30000407	EL CAP.	470UF 16V M
	C830	VE-30000382	EL CAP.	2200UF 16V M
	C831	VE-30000431	CER CAP.	100PF 1KV M
	C832	VE-30000295	CER CAP.	100NF 50V Z F
	C833	VE-30000407	EL CAP.	470UF 16V M
	C834	VE-30000295	CER CAP.	100NF 50V Z F
	C836	VE-30000431	CER CAP.	100PF 1KV M
	C838	VE-30000352	EL CAP.	100UF 16V M
	C839	VE-30000352	EL CAP.	100UF 16V M
	C840	VE-30000352	EL CAP.	100UF 16V M
	C843	VE-30000431	CER CAP.	100PF 1KV M
	C848	VE-30000352	EL CAP.	100UF 16V M
	C849	VE-30000352	EL CAP.	100UF 16V M
	C850	VE-30000352	EL CAP.	100UF 16V M
	C855	VE-30000407	EL CAP.	470UF 16V M
	C856	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C858	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C907	VE-30000434	CER CAP.	1NF 2KV K B
	C908	VE-30000415	EL CAP.	4.7UF 250V M
	C912	VE-30000075	MKT CAP.	100NF 250V K (DC)

TRANSF

⚠	Symbol No.	Part No.	Part Name	Description
⚠	TR601	VE-30017788	FBT TRF	
⚠	TR802	VE-30013683	SMPS TRF	

COIL

	Symbol No.	Part No.	Part Name	Description
	L101	VE-30001971	FERRITE BEAT	
	L102	VE-30001971	FERRITE BEAT	
	L103	VE-30001971	FERRITE BEAT	
	L106	VE-30001971	FERRITE BEAT	
	L107	VE-30001971	FERRITE BEAT	
	L108	VE-30001971	FERRITE BEAT	
	L109	VE-30001971	FERRITE BEAT	
	L110	VE-30001971	FERRITE BEAT	
	L111	VE-30001971	FERRITE BEAT	
	L112	VE-30001971	FERRITE BEAT	
	L113	VE-30001971	FERRITE BEAT	
	L114	VE-30001971	FERRITE BEAT	
	L115	VE-30001971	FERRITE BEAT	
	L201	VE-30001979	FIXED COIL	1UH
	L210	VE-30001971	FERRITE BEAT	
	L211	VE-30001971	FERRITE BEAT	
	L401	VE-30001971	FERRITE BEAT	
	L402	VE-30001992	FIXED COIL	10UH
	L403	VE-30001971	FERRITE BEAT	
	L404	VE-30001990	FIXED COIL	6.8UH
	L405	VE-30014048	ADJ. COIL	44MHZ
	L406	VE-30001971	FERRITE BEAT	
	L407	VE-30002002	FIXED COIL	47UH Q60 K
	L601	VE-30001990	FIXED COIL	6.8UH
	L603	VE-30002149	LINEARITY COIL	50UH
	L604	VE-30001971	FERRITE BEAT	
	L700	VE-30001971	FERRITE BEAT	
	L701	VE-30001971	FERRITE BEAT	
	L702	VE-30001996	FIXED COIL	22UH
	L703	VE-30001979	FIXED COIL	1UH
	L704	VE-30001979	FIXED COIL	1UH
	L802	VE-30001971	FERRITE BEAT	
	L803	VE-30001984	FIXED COIL	2.2UH
	L805	VE-30001971	FERRITE BEAT	
	L806	VE-30001971	FERRITE BEAT	
	L807	VE-30001992	FIXED COIL	10UH
	L809	VE-30001971	FERRITE BEAT	
	L810	VE-30001992	FIXED COIL	10UH
	L900	VE-30002171	PEAKING COIL	22UH K

DIODE

	Symbol No.	Part No.	Part Name	Description
	D101	VE-30007760	ZENER DIODE	
	D102	VE-30007760	ZENER DIODE	
	D103	VE-30007760	ZENER DIODE	
	D104	VE-30007762	ZENER DIODE	
	D106	VE-30001377	ZENER DIODE	
	D300	VE-30001285	DIODE	
	D301	VE-30001285	DIODE	
	D402	VE-30012411	DIODE	
	D405	VE-30007763	ZENER DIODE	
	D407	VE-30001284	DIODE	
	D408	VE-30001285	DIODE	
	D409	VE-30007760	ZENER DIODE	
	D410	VE-30007760	ZENER DIODE	
	D411	VE-30007760	ZENER DIODE	
	D501	VE-30001285	DIODE	
	D505	VE-30001285	DIODE	
	D506	VE-30001284	DIODE	
	D509	VE-30001279	LED RED/GREEN	
	D512	VE-30001285	DIODE	
	D513	VE-30001339	ZENER DIODE	
	D602	VE-30001329	DIODE	
	D603	VE-30001285	DIODE	
	D608	VE-30001318	DIODE	
	D609	VE-30001318	DIODE	
	D610	VE-30001318	DIODE	
	D611	VE-30001285	DIODE	
	D614	VE-30001318	DIODE	
	D615	VE-30001285	DIODE	
	D616	VE-30009699	ZENER DIODE	
	D619	VE-30009699	ZENER DIODE	
	D700	VE-30001285	DIODE	
	D701	VE-30001369	ZENER DIODE	
	D800	VE-30001318	DIODE	

[AV-21BT8EPS / AV-21BT8EPB / AV-21BT80EP]

⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
	D801	VE-30001347	ZENER DIODE	
	D802	VE-30001318	DIODE	
	D803	VE-30001315	DIODE	
	D804	VE-30001285	DIODE	
	D805	VE-30001315	DIODE	
	D806	VE-30001315	DIODE	
	D808	VE-30007681	DIODE	
	D809	VE-30001329	DIODE	
	D810	VE-30009366	DIODE	
⚠	D811	VE-30001329	DIODE	
	D812	VE-30001285	DIODE	
⚠	D813	VE-30001329	DIODE	
⚠	D837	VE-30001329	DIODE	
⚠	D838	VE-30001329	DIODE	
	D890	VE-30001329	DIODE	
	D900	VE-30001318	DIODE	
	D901	VE-30001318	DIODE	
	D902	VE-30001318	DIODE	
	D903	VE-30001344	ZENER DIODE	
	D889	VE-30001384	TR	
	TRANSISTOR			
	Q104	VE-30001457	TR	
	Q106	VE-30001457	TR	
	Q141	VE-30001457	TR	
	Q142	VE-30001457	TR	
	Q301	VE-30001458	TR	
	Q302	VE-30001457	TR	
	Q406	VE-30001457	TR	
	Q402	VE-30001457	TR	
	Q405	VE-30001457	TR	
	Q503	VE-30001457	TR	
	Q504	VE-30001458	TR	
	Q601	VE-30013656	POWER TR	
⚠	Q603	VE-30001448	TR	H.OUT
	Q604	VE-30001457	TR	
	Q606	VE-30001457	TR	
	Q700	VE-30001458	TR	
	Q801	VE-30001385	TR	
	Q802	VE-30001457	TR	
	Q804	VE-30001454	TR	
	IC			
	IC118	VE-30001506	IC	
	IC301	VE-30011824	IC	
	IC403	VE-30014510	IC	
	IC500	VE-20101107	IC	(SERVICE)
	IC501	VE-20099539	PR.IC.	(MICOM)
	IC502	VE-30001670	PREAMPLIFIER	
⚠	IC600	VE-30015306	IC	
	IC700	VE-30013658	IC	
	IC800	VE-30011968	IC	
⚠	IC801	VE-30015087	IC	
	IC803	VE-30001500	IC	
	IC804	VE-30001622	IC	
	IC806	VE-30014346	IC	
⚠	IC900	VE-30015857	IC	
	OTHERS			
⚠	F801	VE-30001731	FUSE	
⚠	PL903	VE-30001855	CRT SOCKET	
	SG900	VE-30000428	SPARK GAP	300V
	SG901	VE-30000428	SPARK GAP	300V
	SG902	VE-30000428	SPARK GAP	300V
	SW501	VE-30002178	TACK SWITCH	
	SW502	VE-30002178	TACK SWITCH	
	SW503	VE-30002178	TACK SWITCH	
	SW504	VE-30002178	TACK SWITCH	
	SW505	VE-30002178	TACK SWITCH	
⚠	SW801	VE-30017848	SWITCH ON/OFF	2.5A/100A
⚠	TH800	VE-30001270	PTC	9 OHM
⚠	TR801	VE-30002100	LINE FILTER	
	TU201	VE-30009637	TUNER	
	X401	VE-30001749	XTAL	
	X402	VE-30015592	XTAL	
	X403	VE-30000074	MKT CAP.	100NF 63V J
	X501	VE-30002851	XTAL	

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	X700	VE-30001756	XTAL	
	Z401	VE-30012545	SAW FILTER	
	Z402	VE-30014261	SAW FILTER	
	Z404	VE-30001724	SER FILTER	

FRONT AV P.W. BOARD ASS'Y (VE-20076582)

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	PL1203	VE-30015338	RCA JACK	
	PL1204	VE-30015339	RCA JACK	
	PL1205	VE-30015337	RCA JACK	

HEADPHONE P.W. BOARD ASS'Y (VE-20100697)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R113	VE-30000712	CF RES.	1/4W 470R J
	R114	VE-30000712	CF RES.	1/4W 470R J
	R115	VE-30000744	CF RES.	1/4W 560R J
	R116	VE-30000744	CF RES.	1/4W 560R J
	COIL			
	L103	VE-30001996	FIXED COIL	22UH Q40 K
	L104	VE-30001996	FIXED COIL	22UH Q40 K

PRINTED WIRING BOARD PARTS LIST

[AV-21BT8EES / AV-21BT8EEB]

MAIN P.W. BOARD ASS'Y (VE-20101103)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R105	VE-30000792	CF RES.	1/4W 75R J
	R109	VE-30012713	SMD RES.	1/16W 75R J
	R110	VE-30012713	SMD RES.	1/16W 75R J
	R113	VE-30012713	SMD RES.	1/16W 75R J
	R114	VE-30012713	SMD RES.	1/16W 75R J
	R115	VE-30012713	SMD RES.	1/16W 75R J
	R116	VE-30012987	SMD RES.	1/16W 56R J
	R117	VE-30012713	SMD RES.	1/16W 75R J
	R118	VE-30000792	CF RES.	1/4W 75R J
	R122	VE-30000792	CF RES.	1/4W 75R J
	R123	VE-30000792	CF RES.	1/4W 75R J
	R126	VE-30012695	SMD RES.	1/16W 470R J
	R127	VE-30000459	CF RES.	1/4W 100R J
	R129	VE-30012713	SMD RES.	1/16W 75R J
	R135	VE-30012657	SMD RES.	1/16W 1K J
	R139	VE-30012713	SMD RES.	1/16W 75R J
	R140	VE-30012987	SMD RES.	1/16W 56R J
	R141	VE-30012695	SMD RES.	1/16W 470R J
	R142	VE-30000459	CF RES.	1/4W 100R J
	R145	VE-30012713	SMD RES.	1/16W 75R J
	R149	VE-30000752	CF RES.	1/4W 56K J
	R151	VE-30012696	SMD RES.	1/16W 47K J
	R152	VE-30000752	CF RES.	1/4W 56K J
	R153	VE-30012657	SMD RES.	1/16W 1K J
	R154	VE-30000723	CF RES.	1/4W 47K J
	R155	VE-30012649	SMD RES.	1/16W 150R J
	R201	VE-30012674	SMD RES.	1/16W 27K J
	R202	VE-30012692	SMD RES.	1/16W 4.7K J
	R204	VE-30000459	CF RES.	1/4W 100R J
	R206	VE-30000459	CF RES.	1/4W 100R J
	R301	VE-30000471	CF RES.	1/4W 10K J
	R302	VE-30000471	CF RES.	1/4W 10K J
	R303	VE-30012641	SMD RES.	1/16W 10K J
	R305	VE-30012641	SMD RES.	1/16W 10K J
	R306	VE-30012509	SMD RES.	1/16W 100K J
	R417	VE-30012510	SMD RES.	1/16W 100R J
	R418	VE-30012510	SMD RES.	1/16W 100R J
	R419	VE-30012649	SMD RES.	1/16W 150R J
	R420	VE-30000466	CF RES.	1/4W 1K J
	R421	VE-30012650	SMD RES.	1/16W 15K J
	R422	VE-30012659	SMD RES.	1/16W 2.2K J
	R423	VE-30012712	SMD RES.	1/16W 8.2K J
	R424	VE-30000712	CF RES.	1/4W 470R J
	R425	VE-30000583	CF RES.	1/4W 220R J
	R426	VE-30012659	SMD RES.	1/16W 2.2K J
	R427	VE-30012674	SMD RES.	1/16W 27K J
	R428	VE-30000792	CF RES.	1/4W 75R J
	R431	VE-30012674	SMD RES.	1/16W 27K J
	R432	VE-30012657	SMD RES.	1/16W 1K J
	R433	VE-30012667	SMD RES.	1/16W 220K J
	R437	VE-30000466	CF RES.	1/4W 1K J
	R438	VE-30000466	CF RES.	1/4W 1K J
	R439	VE-30012657	SMD RES.	1/16W 1K J
	R440	VE-30012714	SMD RES.	1/16W 820R J
	R441	VE-30012656	SMD RES.	1/16W 18K J
	R442	VE-30000466	CF RES.	1/4W 1K J
	R446	VE-30012714	SMD RES.	1/16W 820R J
	R447	VE-30012714	SMD RES.	1/16W 820R J
	R448	VE-30012683	SMD RES.	1/16W 330K J
	R449	VE-30012662	SMD RES.	1/16W 2.7K J
	R450	VE-30000712	CF RES.	1/4W 470R J
	R455	VE-30012696	SMD RES.	1/16W 47K J
	R458	VE-30012662	SMD RES.	1/16W 2.7K J
	R459	VE-30012510	SMD RES.	1/16W 100R J
	R460	VE-30012510	SMD RES.	1/16W 100R J
	R461	VE-30012510	SMD RES.	1/16W 100R J
	R463	VE-30012692	SMD RES.	1/16W 4.7K J
	R464	VE-30012696	SMD RES.	1/16W 47K J
	R469	VE-30000670	CF RES.	1/4W 330K J
	R470	VE-30012683	SMD RES.	1/16W 330K J
	R474	VE-30012692	SMD RES.	1/16W 4.7K J
	R475	VE-30012510	SMD RES.	1/16W 100R J
	R476	VE-30012707	SMD RES.	1/16W 680R J
	R477	VE-30014022	SMD RES.	1/16W 47R J
	R502	VE-30012695	SMD RES.	1/16W 470R J
	R503	VE-30012707	SMD RES.	1/16W 680R J
	R504	VE-30012679	SMD RES.	1/16W 3.9K J
	R505	VE-30012673	SMD RES.	1/16W 270R J
	R506	VE-30012506	SMD RES.	1/16W 1.5K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R507	VE-30012657	SMD RES.	1/16W 1K J
	R508	VE-30000706	CF RES.	1/4W 47R J
	R509	VE-30012641	SMD RES.	1/16W 10K J
	R510	VE-30000622	CF RES.	1/4W 270R J
	R511	VE-30012657	SMD RES.	1/16W 1K J
	R512	VE-30012504	SMD RES.	1/16W 1.2K J
	R513	VE-30000459	CF RES.	1/4W 100R J
	R514	VE-30000459	CF RES.	1/4W 100R J
	R515	VE-30012692	SMD RES.	1/16W 4.7K J
	R516	VE-30012692	SMD RES.	1/16W 4.7K J
	R517	VE-30012692	SMD RES.	1/16W 4.7K J
	R518	VE-30000471	CF RES.	1/4W 10K J
	R519	VE-30012698	SMD RES.	1/16W 5.6K J
	R525	VE-30000583	CF RES.	1/4W 220R J
	R526	VE-30012641	SMD RES.	1/16W 10K J
	R527	VE-30000718	CF RES.	1/4W 4.7K J
	R528	VE-30012698	SMD RES.	1/16W 5.6K J
	R530	VE-30012698	SMD RES.	1/16W 5.6K J
	R531	VE-30012692	SMD RES.	1/16W 4.7K J
	R532	VE-30012659	SMD RES.	1/16W 2.2K J
	R533	VE-30012644	SMD RES.	1/16W 12K J
	R534	VE-30000526	CF RES.	1/4W 1.5K J
	R535	VE-30000718	CF RES.	1/4W 4.7K J
	R536	VE-30000471	CF RES.	1/4W 10K J
	R537	VE-30012641	SMD RES.	1/16W 10K J
	R538	VE-30012698	SMD RES.	1/16W 5.6K J
	R539	VE-30012659	SMD RES.	1/16W 2.2K J
	R540	VE-30012644	SMD RES.	1/16W 12K J
	R545	VE-30012644	SMD RES.	1/16W 12K J
	R546	VE-30000560	CF RES.	1/4W 1.8K J
	R547	VE-30012659	SMD RES.	1/16W 2.2K J
	R548	VE-30012641	SMD RES.	1/16W 10K J
	R555	VE-30012659	SMD RES.	1/16W 2.2K J
	R556	VE-30012657	SMD RES.	1/16W 1K J
	R559	VE-30000470	CF RES.	1/2W 10K J
	R560	VE-30012669	SMD RES.	1/16W 22K J
	R561	VE-30012692	SMD RES.	1/16W 4.7K J
	R562	VE-30000471	CF RES.	1/4W 10K J
	R564	VE-30012641	SMD RES.	1/16W 10K J
	R601	VE-30000477	CF RES.	1/4W 100K J
	R602	VE-30000536	CF RES.	1/4W 150K J
	R605	VE-30000504	CF RES.	1/4W 120K J
	R612	VE-30012692	SMD RES.	1/16W 4.7K J
	R613	VE-30012692	SMD RES.	1/16W 4.7K J
	R618	VE-30012662	SMD RES.	1/16W 2.7K J
	R619	VE-30012641	SMD RES.	1/16W 10K J
	R623	VE-30000607	CF RES.	1/4W 2.2R J
	R624	VE-30001161	MO RES.	2W 39R J
	R625	VE-30000900	MF RES.	1/4W 1.8K J
	R627	VE-30000910	MF RES.	1/2W 1.8R G
	R628	VE-30000650	CF RES.	1/4W 33R J
	R630	VE-30000828	CF RES.	1/4W 8.2M J
	R631	VE-30000885	MF RES.	1/4W 1.5K J
	R633	VE-30000706	CF RES.	1/4W 47R J
	R634	VE-30012641	SMD RES.	1/16W 10K J
	R637	VE-30000621	CF RES.	1/2W 270R J
	R638	VE-30000612	CF RES.	1/4W 2.4K J
	R639	VE-30000718	CF RES.	1/4W 4.7K J
	R640	VE-30012662	SMD RES.	1/16W 2.7K J
	R641	VE-30012649	SMD RES.	1/16W 150R J
	R645	VE-30001125	MO RES.	2W 2.2K J
	R646	VE-30000500	CF RES.	1/4W 12K J
	R647	VE-30000466	CF RES.	1/4W 1K J
⚠	R648	VE-30001254	FUSE RES.	1/2W 0.68R J
	R649	VE-30000775	CF RES.	1/4W 6.8K J
	R650	VE-30000744	CF RES.	1/4W 560R J
	R654	VE-30000705	CF RES.	1/2W 47R J
	R655	VE-30000705	CF RES.	1/2W 47R J
	R657	VE-30012656	SMD RES.	1/16W 18K J
	R658	VE-30001161	MO RES.	2W 39R J
	R659	VE-30001123	MO RES.	2W 220R J
	R660	VE-30012669	SMD RES.	1/16W 22K J
	R661	VE-30012674	SMD RES.	1/16W 27K J
	R662	VE-30000712	CF RES.	1/4W 470R J
	R663	VE-30000459	CF RES.	1/4W 100R J
	R665	VE-30012708	SMD RES.	1/16W 68K J
	R701	VE-30000459	CF RES.	1/4W 100R J
	R703	VE-30000459	CF RES.	1/4W 100R J
	R705	VE-30000459	CF RES.	1/4W 100R J

[AV-21BT8EES / AV-21BT8EEB]

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R715	VE-30012695	SMD RES.	1/16W 470R J
	R717	VE-30012695	SMD RES.	1/16W 470R J
	R719	VE-30012657	SMD RES.	1/16W 1K J
	R721	VE-30000459	CF RES.	1/4W 100R J
	R722	VE-30000459	CF RES.	1/4W 100R J
	R723	VE-30012510	SMD RES.	1/16W 100R J
	R724	VE-30012510	SMD RES.	1/16W 100R J
	R725	VE-30012657	SMD RES.	1/16W 1K J
	R726	VE-30012657	SMD RES.	1/16W 1K J
	R727	VE-30012657	SMD RES.	1/16W 1K J
	R728	VE-30012657	SMD RES.	1/16W 1K J
	R729	VE-30012657	SMD RES.	1/16W 1K J
	R730	VE-30012657	SMD RES.	1/16W 1K J
	R731	VE-30012657	SMD RES.	1/16W 1K J
	R801	VE-30000466	CF RES.	1/4W 1K J
	R803	VE-30012659	SMD RES.	1/16W 2.2K J
	R804	VE-30000477	CF RES.	1/4W 100K J
	R805	VE-30000452	CF RES.	1/4W 10R J
	R806	VE-30007199	MF RES.	1/4W 4.3K F
	R807	VE-30001130	MO RES.	1/2W 0.22R J
	R809	VE-30007784	MO RES.	5W 33K J(RADIAL)
⚠	R810	VE-30001257	MG RES.	1/2W 4.7M J
	R811	VE-30000594	CF RES.	1/4W 22K J
	R813	VE-30000718	CF RES.	1/4W 4.7K J
	R814	VE-30012662	SMD RES.	1/16W 2.7K J
	R815	VE-30000452	CF RES.	1/4W 10R J
	R817	VE-30001037	MF RES.	1/4W 99K F
	R818	VE-30000925	MF RES.	1/4W 2.2K F
	R819	VE-30000810	CF RES.	1/4W 820R J
	R821	VE-30000470	CF RES.	1/2W 10K J
	R828	VE-30001260	WW RES.	5W 2.2R J RAD.
	R829	VE-30000718	CF RES.	1/4W 4.7K J
	R830	VE-30012657	SMD RES.	1/16W 1K J
	R831	VE-30012669	SMD RES.	1/16W 22K J
	R834	VE-30012657	SMD RES.	1/16W 1K J
	R835	VE-30016802	WW RES.	5W 5.6R J RAD.
	R900	VE-30000459	CF RES.	1/4W 100R J
	R901	VE-30000459	CF RES.	1/4W 100R J
	R902	VE-30000459	CF RES.	1/4W 100R J
	R903	VE-30000886	MF RES.	1/4W 1.5K F
	R904	VE-30000886	MF RES.	1/4W 1.5K F
	R905	VE-30000886	MF RES.	1/4W 1.5K F
	R906	VE-30000525	CF RES.	1/2W 1.5K J
⚠	R919	VE-30001207	FUSE RES.	1/4W 10R J

CAPACITOR

	C141	VE-30000384	EL CAP.	2.2UF 50V M
	C142	VE-30000384	EL CAP.	2.2UF 50V M
	C143	VE-30012589	SMD CAP.	4.7NF 50V K
	C144	VE-30012589	SMD CAP.	4.7NF 50V K
	C145	VE-30012589	SMD CAP.	4.7NF 50V K
	C146	VE-30012589	SMD CAP.	4.7NF 50V K
	C147	VE-30012589	SMD CAP.	4.7NF 50V K
	C148	VE-30012589	SMD CAP.	4.7NF 50V K
	C149	VE-30012589	SMD CAP.	4.7NF 50V K
	C150	VE-30012589	SMD CAP.	4.7NF 50V K
	C155	VE-30012560	SMD CAP.	100PF 50V J
	C157	VE-30012560	SMD CAP.	100PF 50V J
	C159	VE-30012560	SMD CAP.	100PF 50V J
	C160	VE-30000387	EL CAP.	33UF 50V M
	C161	VE-30000362	EL CAP.	1UF 50V M
	C162	VE-30000362	EL CAP.	1UF 50V M
	C201	VE-30000400	EL CAP.	47UF 50V M
	C205	VE-30000371	EL CAP.	22UF 50V M
	C206	VE-30012610	SMD CAP.	10NF 50V J
	C207	VE-30012610	SMD CAP.	10NF 50V J
	C300	VE-30000400	EL CAP.	47UF 50V M
	C302	VE-30000092	MKT CAP.	220NF 63V J
	C305	VE-30000092	MKT CAP.	220NF 63V J
	C404	VE-30000225	CER CAP.	220PF 50V J SL
	C408	VE-30012586	SMD CAP.	22NF 50V K
	C409	VE-30000345	EL CAP.	10UF 50V M
	C410	VE-30000384	EL CAP.	2.2UF 50V M
	C411	VE-30000345	EL CAP.	10UF 50V M
	C412	VE-30012586	SMD CAP.	22NF 50V K
	C413	VE-30000362	EL CAP.	1UF 50V M
	C414	VE-30012585	SMD CAP.	2.2NF 50V K R
	C415	VE-30012581	SMD CAP.	1NF 50V K R
	C416	VE-30000362	EL CAP.	1UF 50V M
	C417	VE-30000362	EL CAP.	1UF 50V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C418	VE-30012586	SMD CAP.	22NF 50V K
	C419	VE-30000413	EL CAP.	4.7UF 50V M
	C420	VE-30000100	MKT CAP.	330NF 63V J
	C422	VE-30000400	EL CAP.	47UF 50V M
	C423	VE-30000400	EL CAP.	47UF 50V M
	C424	VE-30000345	EL CAP.	10UF 50V M
	C425	VE-30012586	SMD CAP.	22NF 50V K
	C426	VE-30016654	SMD CAP.	100NF 16V K R
	C427	VE-30016654	SMD CAP.	100NF 16V K R
	C429	VE-30012589	SMD CAP.	4.7NF 50V K
	C431	VE-30000362	EL CAP.	1UF 50V M
	C432	VE-30012586	SMD CAP.	22NF 50V K
	C433	VE-30000345	EL CAP.	10UF 50V M
	C434	VE-30016654	SMD CAP.	100NF 16V K R
	C435	VE-30016654	SMD CAP.	100NF 16V K R
	C436	VE-30000384	EL CAP.	2.2UF 50V M
	C437	VE-30016654	SMD CAP.	100NF 16V K R
	C438	VE-30016654	SMD CAP.	100NF 16V K R
	C439	VE-30016654	SMD CAP.	100NF 16V K R
	C440	VE-30000074	MKT CAP.	100NF 63V J
	C441	VE-30012582	SMD CAP.	10NF 50V K R
	C442	VE-30000384	EL CAP.	2.2UF 50V M
	C443	VE-30000362	EL CAP.	1UF 50V M
	C444	VE-30000384	EL CAP.	2.2UF 50V M
	C448	VE-30012586	SMD CAP.	22NF 50V K
	C449	VE-30012567	SMD CAP.	220PF 50V J
	C451	VE-30012581	SMD CAP.	1NF 50V K R
	C452	VE-30012581	SMD CAP.	1NF 50V K R
	C454	VE-30012573	SMD CAP.	47PF 50V J
	C455	VE-30012573	SMD CAP.	47PF 50V J
	C456	VE-30012573	SMD CAP.	47PF 50V J
	C459	VE-30012575	SMD CAP.	4.7PF 50V C CH
	C460	VE-30000345	EL CAP.	10UF 50V M
	C502	VE-30000396	EL CAP.	47UF 16V M
	C504	VE-30012586	SMD CAP.	22NF 50V K
	C505	VE-30012589	SMD CAP.	4.7NF 50V K
	C510	VE-30012586	SMD CAP.	22NF 50V K
	C511	VE-30012566	SMD CAP.	22PF 50V J
	C513	VE-30000371	EL CAP.	22UF 50V M
	C514	VE-30012586	SMD CAP.	22NF 50V K
	C515	VE-30012579	SMD CAP.	82PF 50V J
	C517	VE-30012586	SMD CAP.	22NF 50V K
	C518	VE-30012586	SMD CAP.	22NF 50V K
	C519	VE-30000352	EL CAP.	100UF 16V M
	C520	VE-30012560	SMD CAP.	100PF 50V J
	C521	VE-30012562	SMD CAP.	15PF 50V J
	C522	VE-30012562	SMD CAP.	15PF 50V J
	C523	VE-30012585	SMD CAP.	2.2NF 50V K R
	C525	VE-30012566	SMD CAP.	22PF 50V J
	C526	VE-30012586	SMD CAP.	22NF 50V K
	C530	VE-30012589	SMD CAP.	4.7NF 50V K
	C531	VE-30000384	EL CAP.	2.2UF 50V M
	C532	VE-30012586	SMD CAP.	22NF 50V K
	C536	VE-30000074	MKT CAP.	100NF 63V J
	C541	VE-30000109	MKT CAP.	470NF 63V J
	C542	VE-30000205	CER CAP.	150PF 50V J SL
	C543	VE-30000205	CER CAP.	150PF 50V J SL
	C545	VE-30012607	SMD CAP.	150PF 50V J
	C603	VE-30000384	EL CAP.	2.2UF 50V M
	C604	VE-30000345	EL CAP.	10UF 50V M
	C608	VE-30000107	MKT CAP.	47NF 250V J
	C610	VE-30000355	EL CAP.	100UF 50V M
	C611	VE-30000092	MKT CAP.	220NF 63V J
	C613	VE-30016085	EL CAP.	10UF 63V 105°
	C615	VE-30000359	EL CAP.	1000UF 16V M
	C616	VE-30000352	EL CAP.	100UF 16V M
⚠	C618	VE-30007100	MKP CAP.	10NF 1600V %3.5
	C619	VE-30000131	MKP CAP.	100NF 250V J
	C623	VE-30000404	EL CAP.	47UF 160V M (HR)
	C624	VE-30000350	EL CAP.	10UF 250V M
	C627	VE-30000154	MKP CAP.	390NF 250V J
	C628	VE-30018380	EL CAP.	3.3UF 160V M (105°)
	C631	VE-30000410	EL CAP.	470UF 50V M
	C632	VE-30000100	MKT CAP.	330NF 63V J
	C633	VE-30016085	EL CAP.	10UF 63V 105°
	C634	VE-30000409	EL CAP.	470UF 25V M
	C635	VE-30000100	MKT CAP.	330NF 63V J
	C636	VE-30000387	EL CAP.	33UF 50V M
	C638	VE-30012581	SMD CAP.	1NF 50V K R
	C639	VE-30000433	CER CAP.	1NF 1KV M B
	C641	VE-30000345	EL CAP.	10UF 50V M
	C642	VE-30012609	SMD CAP.	68NF 50V K

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CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C643	VE-30000116	MKT CAP.	68NF 63V J
	C644	VE-30000362	EL CAP.	1UF 50V M
	C645	VE-30000352	EL CAP.	100UF 16V M
	C700	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C701	VE-30012565	SMD CAP.	1.8PF 50V J CH
	C702	VE-30012573	SMD CAP.	47PF 50V J
	C703	VE-30012573	SMD CAP.	47PF 50V J
	C704	VE-30012576	SMD CAP.	56PF 50V J CH
	C705	VE-30000345	EL CAP.	10UF 50V M
	C706	VE-30000345	EL CAP.	10UF 50V M
	C707	VE-30012573	SMD CAP.	47PF 50V J
	C708	VE-30012586	SMD CAP.	22NF 50V K
	C710	VE-30012573	SMD CAP.	47PF 50V J
	C712	VE-30000345	EL CAP.	10UF 50V M
	C713	VE-30016654	SMD CAP.	100NF 16V K R
	C714	VE-30016654	SMD CAP.	100NF 16V K R
	C716	VE-30016654	SMD CAP.	100NF 16V K R
	C717	VE-30016654	SMD CAP.	100NF 16V K R
	C718	VE-30016654	SMD CAP.	100NF 16V K R
	C719	VE-30012586	SMD CAP.	22NF 50V K
	C720	VE-30000345	EL CAP.	10UF 50V M
	C721	VE-30016654	SMD CAP.	100NF 16V K R
	C723	VE-30016654	SMD CAP.	100NF 16V K R
	C724	VE-30000345	EL CAP.	10UF 50V M
	C729	VE-30016654	SMD CAP.	100NF 16V K R
	C730	VE-30000393	EL CAP.	3.3UF 50V M
	C733	VE-30000345	EL CAP.	10UF 50V M
	C734	VE-30000345	EL CAP.	10UF 50V M
	C735	VE-30012586	SMD CAP.	22NF 50V K
	C736	VE-30000345	EL CAP.	10UF 50V M
	C737	VE-30000109	MKT CAP.	470NF 63V J
	C738	VE-30000109	MKT CAP.	470NF 63V J
	C739	VE-30000109	MKT CAP.	470NF 63V J
	C740	VE-30000109	MKT CAP.	470NF 63V J
	C741	VE-30012585	SMD CAP.	2.2NF 50V K R
	C742	VE-30012585	SMD CAP.	2.2NF 50V K R
	C748	VE-30012560	SMD CAP.	100PF 50V J
⚠	C801	VE-30000094	MKT CAP.	220NF 275V M AC
⚠	C802	VE-30000094	MKT CAP.	220NF 275V M AC
⚠	C803	VE-30000433	CER CAP.	1NF 1KV M B
⚠	C804	VE-30000433	CER CAP.	1NF 1KV M B
	C808	VE-30000295	CER CAP.	100NF 50V Z F
	C809	VE-30000418	EL CAP.	100UF 400V M
	C810	VE-30000387	EL CAP.	33UF 50V M
	C811	VE-30000161	MKP CAP.	47NF 630V J
	C812	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C813	VE-30000295	CER CAP.	100NF 50V Z F
⚠	C816	VE-30000447	CER CAP.	4.7NF 4KV M E
	C817	VE-30000198	CER CAP.	120PF 500V J SL
	C818	VE-30016654	SMD CAP.	100NF 16V K R
	C819	VE-30012609	SMD CAP.	68NF 50V K
	C822	VE-30009208	CER CAP.	470PF 1KV K (PULSE)
	C824	VE-30000433	CER CAP.	1NF 1KV M B
	C826	VE-30000404	EL CAP.	47UF 160V M (HR)
	C827	VE-30000411	EL CAP.	4700UF 16V M
	C828	VE-30000295	CER CAP.	100NF 50V Z F
	C829	VE-30000407	EL CAP.	470UF 16V M
	C830	VE-30000382	EL CAP.	2200UF 16V M
	C831	VE-30000431	CER CAP.	100PF 1KV M
	C832	VE-30000295	CER CAP.	100NF 50V Z F
	C833	VE-30000407	EL CAP.	470UF 16V M
	C834	VE-30000295	CER CAP.	100NF 50V Z F
	C836	VE-30000431	CER CAP.	100PF 1KV M
	C838	VE-30000352	EL CAP.	100UF 16V M
	C839	VE-30000352	EL CAP.	100UF 16V M
	C840	VE-30000352	EL CAP.	100UF 16V M
	C843	VE-30000431	CER CAP.	100PF 1KV M
	C848	VE-30000352	EL CAP.	100UF 16V M
	C849	VE-30000352	EL CAP.	100UF 16V M
	C850	VE-30000352	EL CAP.	100UF 16V M
	C855	VE-30000407	EL CAP.	470UF 16V M
	C856	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C858	VE-30007308	CER CAP.	220PF 1KV K (PULSE)
	C907	VE-30000434	CER CAP.	1NF 2KV K B
	C908	VE-30000415	EL CAP.	4.7UF 250V M
	C912	VE-30000075	MKT CAP.	100NF 250V K (DC)

TRANSF

⚠	Symbol No.	Part No.	Part Name
⚠	TR601	VE-30017788	FBT TRF
⚠	TR802	VE-30013683	SMPS TRF

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L101	VE-30001971	FERRITE BEAT	
	L102	VE-30001971	FERRITE BEAT	
	L103	VE-30001971	FERRITE BEAT	
	L106	VE-30001971	FERRITE BEAT	
	L107	VE-30001971	FERRITE BEAT	
	L108	VE-30001971	FERRITE BEAT	
	L109	VE-30001971	FERRITE BEAT	
	L110	VE-30001971	FERRITE BEAT	
	L111	VE-30001971	FERRITE BEAT	
	L112	VE-30001971	FERRITE BEAT	
	L113	VE-30001971	FERRITE BEAT	
	L114	VE-30001971	FERRITE BEAT	
	L115	VE-30001971	FERRITE BEAT	
	L201	VE-30001979	FIXED COIL	1UH
	L210	VE-30001971	FERRITE BEAT	
	L211	VE-30001971	FERRITE BEAT	
	L401	VE-30001971	FERRITE BEAT	
	L402	VE-30001992	FIXED COIL	10UH
	L403	VE-30001971	FERRITE BEAT	
	L404	VE-30001990	FIXED COIL	6.8UH
	L405	VE-30014048	ADJ. COIL	44MHZ
	L406	VE-30001971	FERRITE BEAT	
	L601	VE-30001990	FIXED COIL	6.8UH
	L603	VE-30002149	LINEARITY COIL	50UH
	L604	VE-30001971	FERRITE BEAT	
	L700	VE-30001971	FERRITE BEAT	
	L701	VE-30001971	FERRITE BEAT	
	L702	VE-30001996	FIXED COIL	22UH
	L703	VE-30001979	FIXED COIL	1UH
	L704	VE-30001979	FIXED COIL	1UH
	L802	VE-30001971	FERRITE BEAT	
	L803	VE-30001984	FIXED COIL	2.2UH
	L805	VE-30001971	FERRITE BEAT	
	L806	VE-30001971	FERRITE BEAT	
	L807	VE-30001992	FIXED COIL	10UH
	L809	VE-30001971	FERRITE BEAT	
	L810	VE-30001992	FIXED COIL	10UH
	L900	VE-30002171	PEAKING COIL	22UH K

DIODE

Symbol No.	Part No.	Part Name
D101	VE-30007760	ZENER DIODE
D102	VE-30007760	ZENER DIODE
D103	VE-30007760	ZENER DIODE
D104	VE-30007762	ZENER DIODE
D106	VE-30001377	ZENER DIODE
D300	VE-30001285	DIODE
D301	VE-30001285	DIODE
D405	VE-30007763	ZENER DIODE
D407	VE-30001284	DIODE
D408	VE-30001285	DIODE
D409	VE-30007760	ZENER DIODE
D410	VE-30007760	ZENER DIODE
D411	VE-30007760	ZENER DIODE
D501	VE-30001285	DIODE
D505	VE-30001285	DIODE
D506	VE-30001284	DIODE
D509	VE-30001279	LED RED/GREEN
D512	VE-30001285	DIODE
D513	VE-30001339	ZENER DIODE
D602	VE-30001329	DIODE
D603	VE-30001285	DIODE
D608	VE-30001318	DIODE
D609	VE-30001318	DIODE
D610	VE-30001318	DIODE
D611	VE-30001285	DIODE
D614	VE-30001318	DIODE
D615	VE-30001285	DIODE
D616	VE-30009699	ZENER DIODE
D619	VE-30009699	ZENER DIODE
D700	VE-30001285	DIODE
D701	VE-30001369	ZENER DIODE
D800	VE-30001318	DIODE
D801	VE-30001347	ZENER DIODE
D802	VE-30001318	DIODE
D803	VE-30001315	DIODE
D804	VE-30001285	DIODE
D805	VE-30001315	DIODE
D806	VE-30001315	DIODE
D808	VE-30007681	DIODE
D809	VE-30001329	DIODE

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⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
	D810	VE-30009366	DIODE	
⚠	D811	VE-30001329	DIODE	
	D812	VE-30001285	DIODE	
⚠	D813	VE-30001329	DIODE	
⚠	D837	VE-30001329	DIODE	
⚠	D838	VE-30001329	DIODE	
	D890	VE-30001329	DIODE	
	D900	VE-30001318	DIODE	
	D901	VE-30001318	DIODE	
	D902	VE-30001318	DIODE	
	D903	VE-30001344	ZENER DIODE	
	D889	VE-30001384	TR	
	TRANSISTOR			
	Q104	VE-30001457	TR	
	Q106	VE-30001457	TR	
	Q141	VE-30001457	TR	
	Q142	VE-30001457	TR	
	Q301	VE-30001458	TR	
	Q302	VE-30001457	TR	
	Q406	VE-30001457	TR	
	Q503	VE-30001457	TR	
	Q504	VE-30001458	TR	
	Q601	VE-30013656	POWER TR	
⚠	Q603	VE-30001448	TR	H.OUT
	Q604	VE-30001457	TR	
	Q606	VE-30001457	TR	
	Q700	VE-30001458	TR	
	Q801	VE-30001385	TR	
	Q802	VE-30001457	TR	
	Q804	VE-30001454	TR	
	IC			
	IC118	VE-30001506	IC	
	IC301	VE-30011824	IC	
	IC403	VE-30014510	IC	
	IC500	VE-20101102	IC	(SERVICE)
	IC501	VE-20104642	IC	(MICOM)
	IC502	VE-30001670	PREAMPLIFIER	
⚠	IC600	VE-30015306	IC	
	IC700	VE-30013658	IC	
	IC800	VE-30011968	IC	
⚠	IC801	VE-30015087	IC	
	IC803	VE-30001500	IC	
	IC804	VE-30001622	IC	
	IC806	VE-30014346	IC	
⚠	IC900	VE-30015857	IC	
	OTHERS			
⚠	F801	VE-30001731	FUSE	
⚠	PL903	VE-30001855	CRT SOCKET	
	SG900	VE-30000428	SPARK GAP	300V
	SG901	VE-30000428	SPARK GAP	300V
	SG902	VE-30000428	SPARK GAP	300V
	SW501	VE-30002178	TACK SWITCH	
	SW502	VE-30002178	TACK SWITCH	
	SW503	VE-30002178	TACK SWITCH	
	SW504	VE-30002178	TACK SWITCH	
	SW505	VE-30002178	TACK SWITCH	
⚠	SW801	VE-30017848	SWITCH ON/OFF	2.5A/100A
⚠	TH800	VE-30001270	PTC	9 OHM
⚠	TR801	VE-30002100	LINE FILTER	
	TU201	VE-30009637	TUNER	
	X401	VE-30001749	XTAL	
	X402	VE-30015592	XTAL	
	X403	VE-30000074	MKT CAP.	100NF 63V J
	X501	VE-30002851	XTAL	
	X700	VE-30001756	XTAL	
	Z401	VE-30013163	SAW FILTER	
	Z402	VE-30014261	SAW FILTER	
	Z404	VE-30001724	SER FILTER	

FRONT AV P.W. BOARD ASS'Y (VE-20076582)

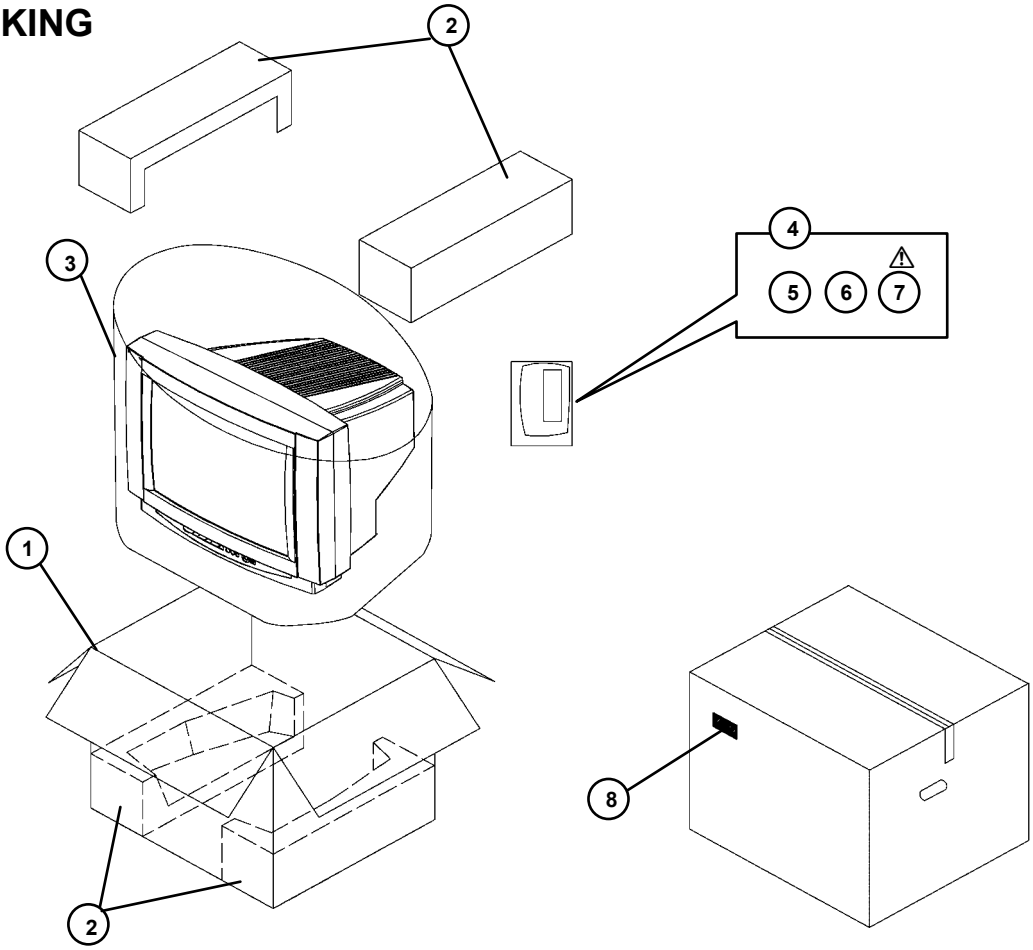
⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	PL1203	VE-30015338	RCA JACK	
	PL1204	VE-30015339	RCA JACK	
	PL1205	VE-30015337	RCA JACK	

HEADPHONE P.W. BOARD ASS'Y (VE-20100697)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R113	VE-30000712	CF RES.	1/4W 470R J
	R114	VE-30000712	CF RES.	1/4W 470R J
	R115	VE-30000744	CF RES.	1/4W 560R J
	R116	VE-30000744	CF RES.	1/4W 560R J
	COIL			
	L103	VE-30001996	FIXED COIL	22UH Q40 K
	L104	VE-30001996	FIXED COIL	22UH Q40 K

AV-21BT8ENS AV-21BT8ENB
AV-21BT8EPS AV-21BT8EPB
AV-21BT8EES AV-21BT8EEB
AV-21BT80EP

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
	1	VE-50028257	CARTON BOX	(AV-21BT8ENS)
	1	VE-50028260	CARTON BOX	(AV-21BT8ENB)
	1	VE-50028295	CARTON BOX	(AV-21BT8EPS)
	1	VE-50028292	CARTON BOX	(AV-21BT8EPB)
	1	VE-50028329	CARTON BOX	(AV-21BT8EES)
	1	VE-50028330	CARTON BOX	(AV-21BT8EEB)
	1	VE-50028289	CARTON BOX	(AV-21BT80EP)
	2	VE-20063225	CUSHION ASS'Y	4pcs in 1set
	3	VE-50027456	POLY BAG	
	4	VE-70000587	POLY BAG	
	5	VE-30017763	REMOTE CONTROL UNIT	(RM-C1100)
	6	BT-54013-2TK	WARRANTY CARD	
⚠	7	VE-50028252	INST BOOK	(AV-21BT8ENS, AV-21BT8ENB)
⚠	7	VE-50028287	INST BOOK	(AV-21BT8EPS, AV-21BT8EPB)
⚠	7	VE-50028323	INST BOOK	(AV-21BT8EES, AV-21BT8EEB)
⚠	7	VE-50028287	INST BOOK	(AV-21BT80EP)
	8	VE-20101398	LABEL	(AV-21BT8ENS)
	8	VE-20101401	LABEL	(AV-21BT8ENB)
	8	VE-20101557	LABEL	(AV-21BT8EPS)
	8	VE-20101554	LABEL	(AV-21BT8EPB)
	8	VE-20101601	LABEL	(AV-21BT8EES POLAND)
	8	VE-20101656	LABEL	(AV-21BT8EES)
	8	VE-20101658	LABEL	(AV-21BT8EEB)
	8	VE-20101654	LABEL	(AV-21BT8EEB POLAND)
	8	VE-20101551	LABEL	(AV-21BT80EP)

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